









# Loeb BANKERS MEET TO DISCUSS PLANS TO THWART HOLDUPS

Illinois Association, However, Keeping Secret Measures to Be Adopted to Check Robberies.

HIGHER INSURANCE RATES ARE FEARED

Auto Used by Highwaymen in Theft of \$5851 From Venice Thursday Is Found Abandoned.

Continued from Page One.

ing organized to search for the missing Italian aviator, Lieut. Antonio Locatelli and his companions, between Cape Farewell and Trieste. The Danish steamship Islander also is aiding in the search.

A message from Lieut. Lowell H. Smith reports a Greenland native heard an airplane 30 minutes after the last American plane landed at Frederikstad.

The cruisers Richmond and Raleigh and the destroyer Barry are searching for Lieut. Locatelli, but a shortage of fuel may soon compel the Raleigh to abandon the quest.

All the vessels are using searchlights at night and sending up dense clouds of smoke at intervals at day, and the navy will devote the same care to the search as they would if an American vessel were lost. It is possible the Richmond may not now be able to make Indian Harbor in time to take up her station in the patrol for the American next flight.

A storm is predicted for Sunday, and the flyers may wait until it has passed, although they are considering trying to beat the storm by flying tomorrow.

Declaring his intention of remaining here to search for the missing airman as long as there is the slightest hope, Admiral Macgruder has sent for a tanker to replenish the depleted fuel supply of his vessels.

**Believes Crew Numbered Four.**

Fog interfered with the search this morning, preventing scout planes from leaving the Raleigh and Richmond, which were moving cautiously along the coast outside the ice rim.

Lieut. Marescalchi, who accompanied Locatelli part of the way from Pina, declared that if the plane was forced down at sea, the flyers are safe, as the machine is seaworthy, of all-metal construction and carries food and water sufficient for from six to 10 days.

Lieut. Marescalchi was uncertain on Thursday whether three or four men were in the seaplane, but from photographs taken as the machine was passing the island, he declared the crew numbered four—Lieut. Antonio Locatelli and Lieut. Giulio Croso, pilots, and Giovanni Barocci and Bruno Farinelli, mechanics.

Their chief danger was of crashing against a mountain in the fog or of wrecking the plane against the ice if forced down in rough water along the shore.

**Argentine Flyer Awaits Arrival of New Plane.**

TOKIO, Aug. 23.—A special airplane consigned to Major Pedro Zanni, Argentine aviator, flying around the world, whose machine was wrecked while he was attempting to take off from Hanoi, French Indo-China, for Canton, was not transported from Kobe today on the Waka Maru because the vessel was too small to carry the machine.

**Flyers Expected at Indian Harbor Sunday.**

ST. JOHNS, N. F., Aug. 23.—The manager of the Marconi company's station here this morning received a message from the U. S. destroyer Lawrence off Indian Harbor, Labrador, declaring the American round-the-world flyers were expected at Indian Harbor Sunday. The message contained no reference to Lieut. Locatelli, missing Italian aviator. The manager of the station was asked to keep all wireless stations under his authority open for the transmission of messages.

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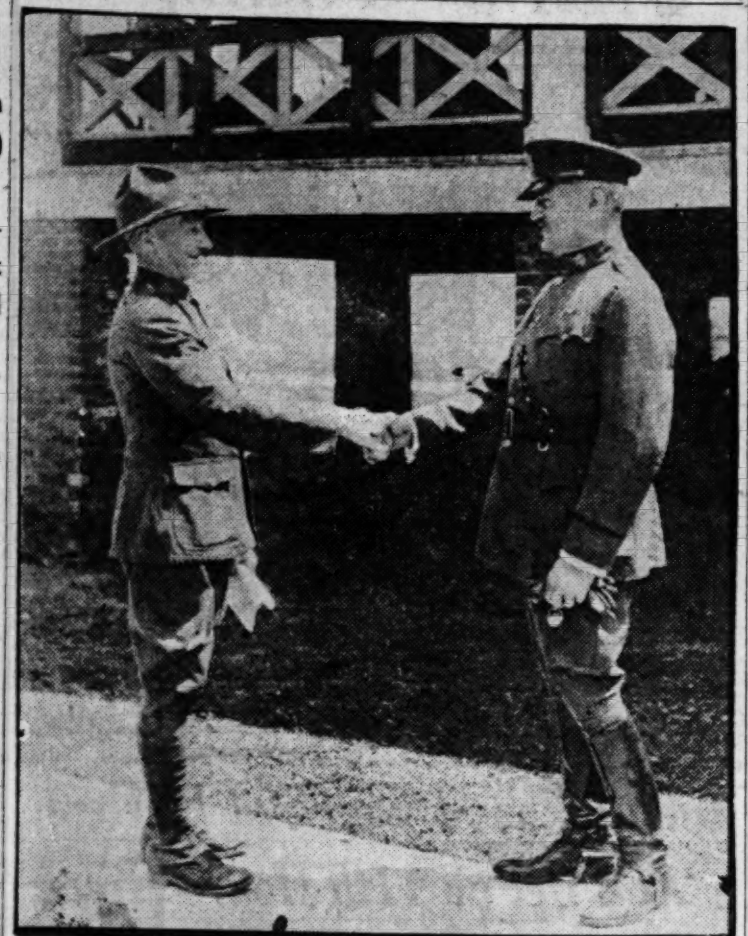
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## Honored for 50 Years' Service



SERG. JOHN J. VAN DUZEN. Fifty years a sergeant in the record of Van Duzen who was greeted on the anniversary by Gen. Pershing at Camp Perry, Ohio. Sergeant Van Duzen's record is thought to be the longest period of continuous service for any sergeant in the United States and perhaps in the world. He has been with the same infantry company throughout the entire period.

## Dawes Joins Davis in Denunciation of Klan

Continued from Page One.

hardened criminals from the penitentiary. Law enforcement measures have been taken in many places in the State.

**Excuse for Secret Organization.**

"If there could be an excuse for law-abiding citizens to band themselves together in secret organizations for law enforcement, it existed in Oklahoma and the Klan became a powerful organization.

"What happened then? Then back stepped Gov. Walton to the American flag to which, it seems to me, he had not kept very close up to that time—and called out the militia of the State. Then it was the Klan, in the interest of law and order, found themselves arrayed against their flag and the laws of Oklahoma. A situation like that of the Civil War existed and it was averted only by a few clear-headed men.

"And then what happened? There was the application of the only method by which our people can properly settle such differences—the procedure outlined in the Constitution and laws of the State of Oklahoma. Walton was removed from the governorship by the vote of the people and quiet was restored under the orderly process provided by the Constitution and the law.

**Lawlessness at Herrin.**

"Consider what happened in Williamson County, Illinois, where the town of Herrin is situated. A reign of lawlessness existed. It was marked by the terrible Herrin massacre. It was marked by a general breakdown in respect for law, which indicated that the officers of the county, including the Sheriff, had been intimidated by law-breakers into inaction. A thousand members of the Ku Klux Klan, without disguise—these were brave men—marched to the office of the Sheriff of Williamson County to protest against the lawlessness of that section. If a secret organization to uphold law and order is justifiable anywhere in our country, it was justifiable there.

"But what happened? Immediately the lawless element formed the Knights of the Flaming Circle and then both sides were afraid to go out at night and a conflict was created which actually culminated in civil war and the loss of life. And how, again, was peace established? By the only proper way, in the sending of the militia of the State of Illinois to the scene of the trouble, as provided by law in such cases. The critical situation was settled by it without shedding a drop of blood and the troops were quickly removed.

**Appeals to the Adventurers.**

"There is much in the Ku Klux Klan which appeals to the adventurous youth. I remember once traveling over Illinois, speaking for law enforcement, the 'Constitution and the American flag' some of the American Legion men with me talked to other legion men who had joined the Ku Klux Klan as one of the town vigilantes. These latter young men believed that they were acting in the interests of law enforcement. They told those who were with me what they were planning to do. They said:

"There is a bootlegger in our county who is in cahoots with the Sheriff and everybody knows it. Now we are not going to hurt him, but some night we are going to go to his house and we are going to gag him, carry him and the still up to the courthouse and let him know it so that the Sheriff and the whole town will see them when they come down to their work in the morning."

"This may appeal to adventure-

## PERSHING APPEALS FOR DEFENSE SUPPORT

Believes Nation Should Aid in Maintaining Allied Armies at Front.

By the Associated Press.

DENVER, Col., Aug. 23.—Vowing to continue in active service for preparedness after his retirement Sept. 13, next, as Chief of Staff of the United States Army, Gen. John J. Pershing, in an address here yesterday, appealed for the support of the nation behind plans of the Government for national defense.

"Am I a militarist?" Pershing shouted. "No man in this room can say that I am a militarist. Can you charge that we are bringing up these boys in the citizens' training camps to believe in militarism? There is no such nonsense. We are bringing up these boys to be bigger, better, future citizens of this country of ours."

Pershing told briefly the story of America's unpreparedness in 1917. "If it hadn't been for the fact that our allies held the lines for 15 months after we entered the last year—held them with the support of loans we had made—there might not have been any victory as far as we were concerned," he continued.

"While I am on the subject," he said, "I want to say something I never have said in a public address before. We scarcely realized what those loans meant to us."

"It seems to me that there is some middle ground where we should bear a certain part of the expense in maintaining the allied armies at the front, instead of calling every bit of that money loan and insisting on its repayment. 'We are responsible,' he shouted. 'We declared war, then gave the money. Now we are not going to hold the boche back until we could pay.'

Gen. Pershing left last night for Cheyenne, Wyo., on his return trip to his home at Fort Riley and Fort Leavenworth, Kan., planning to be at the latter place next Monday or Tuesday.

## POLICE GET HIGH-POWERED AUTO FOR EMERGENCY CALLS

Nine Others Have Been Ordered for Outlying Districts—Carry Riot Guns.

A high-powered automobile, to be known as the "flyer," was delivered to the detective branch of the Police Department today, for use in getting quickly to the scene of a big robbery, murder, riot, or other emergency. It will make 75 miles an hour.

In appearance it is much like the ordinary touring car, with seats for five men, but here are some of the things it carries: A heavy belt, a warning signal in traffic, riot guns, tear bombs, automatic pistols, a sub-machine gun and ropes.

When a "flash" of something wrong reaches Police Headquarters, the nearest available detective: "Get the flyer," which will be kept handy in the police garage, on Clark avenue, behind Police Headquarters.

"We want to make it hot for the red hots," said Chief of Detectives Hoagland. "It is no longer a matter of minutes in getting to a bank robbery, an industrial riot, or a matter of seconds. It is advantageous to get on the scene quickly."

Nine similar cars have been ordered for outlying districts. They were equipped at the Fire Department garage.

## WARRANT IS ISSUED FOR MAN

Alleged Insurance Agent Charged With Obtaining Money by Fraud.

A warrant charging C. T. Johnson, address not given, with obtaining money by false pretenses was issued yesterday on complaint of Charles Kramer, 1721A Carr street.

Kramer said he paid \$20 to Johnson last March as the first annual premium on a \$7500 annual insurance policy purporting to be issued by the North American Accident Insurance Co. of Chicago, with Johnson as its St. Louis branch manager. Some weeks later, after falling on a sidewalk, Kramer filed a claim for damages with Johnson, and it was not allowed. Kramer then took his claim to the Chicago offices and learned that his policy had not been issued by the company, and Johnson was not its St. Louis manager. He had been licensed to sell policies, but had never reported any sales. Kramer was told.

## UNAUTHORIZED CANVASSERS

Orphans' Home President Warns Against Solicitors.

George Schneider, president of the German General Protestant Orphans' Home, 4447 Natural Bridge avenue, today issued a warning to citizens against giving contributions to home-to-home canvassers. He learned yesterday that a woman had been obtaining small sums from housewives and merchants in North St. Louis, representing that they were for a fund to buy a new roof for the home.

The home employs no canvassers and has but one authorized collector, Schneider said.

Man Dies After Fall From Hayrack.

Hilbert Weber, 13, of Berger, Mo., died at Lutheran Hospital yesterday from internal injuries suffered Thursday when he fell from a hayrack on which he was working at his home.

## GIRL HIT BY AUTO DIES FROM INJURIES

Alton Coroner Investigating Circumstances Surrounding Death of Child.

The Coroner at Alton today is investigating the death there yesterday of Eunice Greeling, 9-year-old daughter of Mr. and Mrs. William Greeling, from injuries suffered when struck by an automobile last Saturday in the north end of town. Her death was caused by brain fever resulting from a skull fracture.

The automobile was driven by Eugene Resler of Godfrey, Ill. According to accounts told Alton police, Resler was en route from Alton to his home. He had reached the corner of the street near Alton, where he was waiting for another automobile to make a turn when the Greeling child attempted to cross. Both she and Resler became confused and a fender of his automobile struck her.

The injured girl was cared for at the home of a physician Saturday and was removed to her own home on the Grafton road near Alton. Complications developed Sunday and she never regained consciousness.

Resler was not held and it was said at the Coroner's office that action against him was dependent on the findings of the investigation.

## MOTORIST HELD FOR FLEEING AFTER HITTING DRUGGIST

A motorist, who struck and injured Willard McCarter, 27 years old, a druggist, residing at 4041 North Westwood avenue, as he was about to board a Taylor car at Westwood and Farin avenues, yesterday, sped on, pursued by two men in another car.

The driver of the Ford sedan, who was the driver of the automobile which struck McCarter, was identified by the two brothers as the driver of the automobile they had pursued, and he was held at the Angelica Street Station, charged with leaving the scene of an accident, felonious wounding and passing a street car while discharging passengers. The injured man was removed to his home, where he suffered the loss of several teeth and a fractured jaw, lacerations of the mouth, chest and elbow.

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## Actress Charges Husband Held Her as 'Bird in Cage'

Beverly West, in Divorce Action, Alleges Count Treshatny Would Lock Her in Room When He Left Home.

By Leased Wire From the New York Bureau of the Post-Dispatch.

NEW YORK, Aug. 23.—Charging that her handsome husband, Count Serge Treshatny, made her life literally the life of a bird in a cage, Countess Treshatny, formerly known on the stage as Beverly West, took the first step yesterday in an action for divorce in which she will ask \$5000 counsel fees and alimony of \$1000 a month.

Her husband's title as a Russian nobleman is set forth in her complaint, which has been served on him but not filed, and in an accompanying affidavit. In her husband's name and influence is given in reference books of nobility or in newspaper files. The only document filed in connection with the case is a note of issue filed in the Supreme Court, Brooklyn. This gives notice application will be made, Aug. 27, for alimony and counsel fees.

**Says He Locked Her in Room.**

Mrs. Treshatny said in her affidavit:

"I was married to Count Treshatny in April, 1918, in Brooklyn, after I had known him three months. He made an imposing appearance, and told me he was a member of the Russian nobility, and had been graduated from Oxford University. He said he came here as an inspector of ammunition for the Russian Government and that his income then was about \$20,000 a year. In addition he had several thousand dollars in cash and influential connections, he said, all of which were thrown at my feet.

"At that time I was about 17 years old and inexperienced. Such representations and promises worked on my inexperienced youth. I became his wife. I did not know his real character and his artistic and foreign temperament. As soon as we were married, he commenced

## DRY AGENTS CAPTURE 2 TRUCKS OF BEER

First Driver Arrested Unloading Barrels, Other Taken After Chase on Street.

Prohibition agents under William Goshorn got up early this morning and went to Fifteenth street and Sullivan avenue. At 8:15 a.m. they watched a truck loaded with barrels drive up to a soft-drink parlor at the northwest corner. The driver opened up a pair of cellar doors and began unloading the barrels from truck to cellar.

The agents arrested him as the first barrel slid down the skids. The surprised driver gave his name as George Henry and professed not to know whence the barrels came or why. He expressed surprise when the agents informed him that 18 half barrels remaining on his truck contained real beer. The truck had painted on it, "North St. Louis Sales and Service Co., 2906 North Nineteenth street."

As the agents were taking the driver and truck to the Federal Building they passed a truck having the same name and number of barrels. "George Henry" shouted: "Beat it—step on it!" to the driver of the second truck. He beat it, but was pursued and overtaken after nine blocks by an agent in a flivver.

The driver of the second truck, who gave his name as August Meyers, was so mortified at his expensive truck being overtaken by a flivver that he asked permission to run his truck into the river. Permission was refused, as the agents wanted truck and barrels as evidence.

The agents are seeking the source of the beer. The two trucks were dusty and muddy, and it is thought they may have brought the beer from Illinois.

## CHAUFFEUR REPORTS HOLDUP

William Quimrey of 3529A North Westwood avenue, chauffeur for bakery, reported to police that he was held up yesterday afternoon at Twenty-fifth and Mulanphy streets by two men and robbed of \$75 in collections.

## Now, a Remedy for Poison Ivy

Of all Summer pests, the poison ivy probably claims the most victims and causes the most annoyance. Science has at last found an antidote which is published in the Sunday Post-Dispatch.

GET THE BIG SUNDAY POST-DISPATCH IT BEATS THE PACE!

## PARTY ROBBED OF JEWELRY AND AUTO

Driver Drops Gems to Save Them, but Thieves Take His Machine.

"In a holdup always drop your rings and other jewelry to the floor of the tonneau. The robbers may overlook them."

Following this advice told them by friends, members of an automobile party sought to save jewelry valued at \$4000 by dropping it to the floor of their car when robbers halted them in East St. Louis last evening.

But it didn't work. The robbers, without searching the three men and two women, ordered them out of their machine and drove it away, diamonds and all.

Five Men in Holdup.

The victims of the robbery were Stephen Knowles, a commission broker of 619 North Fourteenth street, his wife and son, James, and Mr. and Mrs. Byron Virgin of 621 North Fourteenth street, East St. Louis.

In Knowles' Marmon automobile they were returning from a pleasure ride at 11:15 o'clock, when the corner of Fourteenth and Ninth streets, East St. Louis, a touring car carrying five men ranged alongside. Forcing Knowles to stop the car, the five got out, all of them armed. The sidewalks were well filled with pedestrians, but none realized what was taking place.

"You can search us," Knowles said.

"We don't want to search you. We want that car," the leader replied.

**Drive Machine Away.**

Not daring to protest Knowles and his party watched while two of the robbers got into the automobile. The other three followed in their machine.

Among the articles lost were a 3 1/2 karat diamond ring belonging to Knowles, two rings of more than 10 karats, Mrs. Knowles' diamond bracelet, a watch, a pair of earrings, a scarf pin and rings set with smaller stones. Mrs. Virgin told police she had left most of her jewelry at home and had both hands full of cash when the five fear burglars would enter her house and take them.

## MAN FOUND DEAD IN FEW INCHES OF WATER IN SLOUGH

Believed to Have Been Overcome by Heat While Sitting on Bank of Slough.

"You better watch out—If that thing turns over you're gone," Anton Zang, 20, of 2221 Lynch street, Levee, said jokingly as his four companions on a freight car at Chouteau Slough, four miles north of Granite City, roved past the bank where he was sitting yesterday.

"I never converted directly or indirectly, one cent to my own uses," Thomas said. "A complete accounting of all moneys was made and is on record in the Federal Court in my final report as receiver. Moreover, acting as receiver and an arm of the court, I cannot be held liable for expenses paid out in the receivership."

Thomas was appointed receiver on May 19, 1922, by Federal Judge English and served until Jan. 8, 1924, when Federal Circuit Court of Appeals ruled the Federal Court had no jurisdiction in the case and dismissed the receivership.

**Catholic High Schools Open Sept. 2**

The St. Louis diocesan high schools, the Kenrick and the Rosati-Kain, will resume classes on Tuesday, Sept. 2. New pupils will register at the schools on Monday and Tuesday, Aug. 25 and 26; the boys at the Kenrick school, 2619 Stoddard street, and the girls at the Rosati-Kain, Lindell boulevard and Newstead avenue. At the time of registration pupils will receive application forms to be signed by parents and pastors.

**Telephone and Nickels Stolen.**

Thieves attempting to remove money from the coin box of a pay telephone in the Ninth street corridor of the Federal Building, between 5 p. m. and 7 p. m. yesterday, apparently were startled by approach of someone and fled, taking the telephone and pay box with them.

## Hold Up Men Take Diamond

William Richardson, 1106A North Grand boulevard, was driving in his automobile with a man, companion on the St. Charles Rock road, near St. John's Station, last evening, when they were held up by two men who took a diamond slipper which he valued at \$750 from Richardson and escaped.

## Police Seek Dry Goods Man

Allege Jobber Disposed of Goods Stolen From Freight Car.

The police today sought unsuccessfully to trace a man, who recently opened an office on Washington avenue, as a dry goods jobber, who had shipped a bill of goods, which have been identified as stolen from a freight car at East St. Louis, to a merchant in Cape Girardeau.

Detectives found the Washington avenue office abandoned and after learned the man had checked out of his hotel early in August. The goods recovered in Cape Girardeau consisted of several pairs of silk hose, and were identified as part of the loot obtained by car robbers June 30, when 100 dozen pairs of silk hose, valued at \$1200.70, were stolen.











ROOMS FOR RENT—C

sleeping room.  
 No. 3530—Two connecting, housekeeping  
 rooms; floor frant; running water,  
 phone, electric, phone; all conveniences; \$8;  
 (1)  
 (1)  
 WASHINGTON, 2713—Cool, completely  
 furnished housekeeping rooms, \$3, \$3.50  
 and \$4. (7)

### North

WARETT, 3511A—Furnished room, bath,  
 electric, private family; near Park  
 Hotel; reasonable. (1)  
 WASH. 2830A N.—Housekeeping room;  
 all conveniences. (6)  
 (1)

**Northwest**

**APRITT, 4398** - 3 connecting housekeeping rooms; gas range, kitchen cabinet; all conveniences.

**St. LOUIS, 4858** - Light housekeeping, front room; perfectly clean; adults, private.

KANSAS. 5721.—Bedroom and kitchen furnished for light housekeeping. View 3077. (7)

BROADWAY. 3516 S.—Furnished rooms, gentleman or couple; use of kitchen; no address. (7)

CAROLINE. 3539—2 connecting front rooms, furnished for housekeeping; reasonable. (7)

CHITTAWA. 2825.—Two furnished rooms for a couple or two gentlemen; all conveniences; convenient to car line. (7)

JEFFERSON. 2617A, S.—Nicely furnished room, bath; southern exposure; kitchen unusual. (7)

SPAYETTE 2626.—Furnished rooms. (7)

SPAYETTE 3131.—Large room, complete. (7)

housekeeping; all conveniences: 30  
 (7)  
 3240—Furnished: front  
 rooming or housekeeping rooms: bath:  
 electric. (7)  
 MILITARY RD. 801-3 rooms, gas, electric;  
 water; no children. (7)  
 PARK 3130-2 housekeeping rooms: \$10  
 week; 1 room. \$3 week. (7)  
 POTALOZZI 2616—Furnished: front  
 rooming or housekeeping room: bath:  
 electric. (6)  
 ROOM—Nicely furnished; all conveniences;  
 and car service. Phone Victor 2-7777. (7-7)  
 MURPHY 4010—Nice front bathroom,  
 with porch in home. Grand 28378 (1)  
 MURPHY 2446—Light housekeeping  
 kitchenette; complete. (7)

1177—Quiet, convenient house-  
 keeping. kitchenette. \$5.50; hall room.  
 11.75. (r-22)  
 1726—Very nice and  
 clean sleeping rooms. \$4.50 and \$5.  
 south of Lafayette Park. (r-18)  
 2814—Furnished room and bath.  
 Private family. (1)

**Southwest**

4400—One room for light house-  
 keeping; newly decorated; clean; adults  
 only. (r-1)

**WESS**

**ALLINGTON, 1433A**—Furnished hall room, sleeping; gent; private; reasonable. Phone: 8931J. (c6)

**AUBREY, 1416**—Front housekeeping suite, furnished; for Christian ad. (c7)

**BURMAN, 5367**—Front housekeeping room. Page, Union cars. Phone 5621W (c7)

**CLAYARD, 753**—Room and kitchenette; also small sleeping room. Phone 3082W. (c7)

**COYLE, 356A N.**—3 large front rooms, housekeeping; reasonable; gas radiator. (3)

**CARRANE, 5176**—Clean connecting house-keeping rooms; references exchanged; Protestant; \$8. (c)

HARTENBERG PL. 723—Two rooms; light  
 housekeeping; all conveniences. (c) 1  
 JENNENS, 5904A—Nicely furnished room  
 in private home. Cabany 4104J. (A)  
 K GIVERVILLE 5733—Large room,  
 suitable for two; private bath; garage;  
 electricity. (c) 1  
 KILMAR 4149—Large bath; room, large  
 closets, air range. \$6 per week.  
 KILMAR BL., 3949—Neatly furnished  
 rooms 1st and 2d floor. (7)  
 KILMAR BL., 3940—Room and board, \$9  
 weekly; table board, \$5; home cooking.  
 KILMAR BL., 3970—Single and double  
 rooms; gentlemen; \$3.50 up; garage

place optional. (c7)  
**ELMAR BL. 5147**—Large cool rooms with large twin beds. Phone Forest 6231 (c7)  
**ELMAR. 3712**—Beautiful room, private family, owner's home; near Grand; no rent. (c1)  
**ELMAR BL. 4423**—Neat light house-keeping rooms; hot and cold water; conveniences. (c1)  
**ELMAR BL. 5103B**—Third floor west; neatly furnished front sleeping room and kitchen; preferably 2 or more persons; no girls. (c1)  
**WYTON. 5026**—Neatly furnished room for people employed; electric bath and telephone. (c7)  
**WYNGHT. 3445A**—Large airy room for

**SELMAR BL. 5147**—Large cool rooms with large twin beds. Phone. Furnish. (cl)

**SELMAR. 3712**—Beautiful room, private family; owner's home; near Grand; urban. (cl)

**SELMAR BL. 4453**—Neat light house. Keeping rooms; hot and cold water; conveniences. (cl)

**SELMAR BL. 5103B**—Third floor west; nicely furnished front sleeping room and kitchen; preferably 2 or more young girls. (cl)

**STON. 5926**—Neatly furnished room for people employed; electric bath and telephone. (cl)

NIGHT, 5443A—Large airy room for  
 ladies employed. Cabany 62BW. (7)  
 NIGHT, 4376—Large front room and  
 kitchenette; all conveniences.  
 NIGHT, 55XX—Furnished room; mod-  
 ern conveniences; private adult family;  
 bathroom. Forest 2419.  
 NIGHT, 5543—Large front, also light  
 breakfast room; all conveniences;  
 meals employed.  
 ECLD, 4 S—Newly furnished room for  
 sleeping; all conveniences. Forest 4384;  
 or call after 7 p. m. (1)  
 EVANS, 4402—Furnished room for single  
 man; all conveniences. Delmar 1270L.

**FOREST PARK BL., 4401** Room for housekeeping or sleeping; convenience; desirable apartment. (C71)

**KINGSHIGHWAY, 1010A N.—21-floor** front housekeeping room. \$5.50; one for ladies \$4.25. (C61)

**KINGSHIGHWAY, 1244 N.—Large house-** keeping rooms; clean; quiet; hall; no stairs. (C61)

**KINGSHIGHWAY, 1210A N.—Two nicely** furnished rooms for housekeeping. (C61)

**KINGSHIGHWAY, 919 N.—Housekeeping** room. (C61)

pleasant: sun porch: all  
 very reasonable. (cl)  
 ABADIE, 5527—Two large furnished  
 housekeeping rooms: adults. Colfax  
 7343.  
 ACADEME, 4441—2 basement rooms, fur-  
 nished or unfurnished. Delmar 4617 (c)  
 ACADEME, 4441—Furnished first floor  
 room. 30. Garage. \$1. Delmar (c)  
 4617.  
 ADELS BL., 3940—Attractive room:  
 central hot water: convenient loca-  
 tion: board optional. (1)  
 ANDERSON, 4167—Large room, kitchen-  
 ets: garage: electric small rooms.  
 ANDERSON, 4237

room, close to car. \$500—Newly furnished. (7)  
 PETERSON, 4077—Connecting, southern front rooms, furnished for housekeeping; conveniences; adults.  
 PETERSON, 4613—Large, front, sleeping porch, neatly furnished; conveniences; near University car. (1)  
 RAYLAND, 4210—Neatly furnished; near Lindell 238W. (1)  
 RAYLAND, 4372—Neatly furnished sleeping porch, 1 or more; reasonable. Lindell 6484-W. (61)  
 RAYLAND, 4306A—Large front room, porch; continuous hot water; everything furnished; reasonable.

HWY 240, 519 N - Attractive furnished  
 large room, with kitchenette  
 and modern conveniences (6)  
 L.V. 42074 - Front and hall rooms; all  
 modern. Lindell 3024R. (6)  
 L.V. 4135 - Large furnished front room  
 and bath. 204R. (6)  
 L.V. 2724 - Newly furnished home-  
 making and sleeping rooms; all conven-  
 iences. 204R. (6)  
 L.V. 4333 - Housekeeping and sleeping  
 everything modern, conveniently located. (7)  
 L.V. 4478 - Housekeeping room. 20  
 L.V. 37 - running water, gas range  
 and modern conveniences. (6)

148 3307—Neatly furnished rooms for  
 bath, breakfast, also two bathroom  
 Lindal 1512R. (67)  
 148 4727—2 cooking, breakfasting  
 rooms, second floor, first view  
 148 4433—2 Bath; cleaning or  
 breakfasting rooms, neatly furnished  
 clean  
 148 4546—Neatly furnished  
 dining rooms, suitable for 2. (1)  
 148 4548—2 or 3 dining rooms,  
 neatly furnished; 2 gardens. (6)  
 148 4549—Levy; excellent menu; 44 and  
 up, rates reasonable. Lindal 6280W. (7)

[illegible]







# Let Their Success Be Your Inspiration!



The great and constantly growing number of boys and girls who have earned FREE Janesville awards is a convincing demonstration that ANY eligible boy or girl may expect success.

THE FORMULA FOR SUCCESS IS:  
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The task is not easy, but the reward is a rich and worthy prize. No worthwhile goal is won by mere wishing, nor by indifferent effort. And the earned ownership of a Janesville (Ball-Bearing) Coaster Wagon is a commendable goal—a proud achievement.

**If you want a wagon you may be proud of—one that will increase your pride in ownership by its performance—and if you are willing to work for it, ENROLL TODAY**

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10-inch, double-disc wheels—bound together with steel rim instead of rivets or spot welding.  
Oversize rubber tires—put on to STAY!  
36x16-inch selected white ash body.  
Curved pole irons make steering easy.

Patented Janesville ball bearings—all wearing parts heat treated and case hardened.  
Heavy, selected white ash bolsters—strong and durable.  
Extra-heavy hound and bolster braces.

1/2-inch cold rolled steel axles, fastened to the bolsters with metal clips instead of weakening the axle by drilling holes.  
Beautifully finished—body and bolsters in natural wood; wheels in red enamel.

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**Verified** subscriptions are required. We investigate the validity of the order and the subscriber's responsibility. All orders are received subject to acceptance or rejection by the POST-DISPATCH.

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ON THE WEST BY GRAND BL.  
ON THE EAST BY THE MISSISSIPPI RIVER

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I promise to abide by the requirements of your offer.  
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I am not identified in any way with the sale or distribution of the POST-DISPATCH.

NAME .....  
AGE .....  
ADDRESS .....

Editorial Page  
Daily Cartoon

PART TWO.

**COOLIDGE WILL LET PARLEY WAIT ON DAWES PLAN**

President Tells Correspondents Reparations Agreement Comes Before Question of Disarmament.

**WILL NOT PRESS FOR ALLIED DEBTS**

Executive Makes Known He Regards World Court of Less Consequence Than Results From Conference.

Special to the Post-Dispatch.  
PLYMOUTH, Vt., Aug. 22.—President Coolidge, in his first conference with newspaper men since he began his vacation, yesterday made known his views on reparations, foreign debts and disarmament.

He regards adoption of the Dawes program and full operation under it as the issue of prime importance to both Europe and America, feeling that a general revival of business in Europe, with resultant prosperity to the United States, will follow. He believes continuation of a high protective tariff will be essential in the new situation.

He has decided that, despite the general economic rehabilitation Europe is expected to have, the present is not an opportune time to press for payment of the allied debts to the United States.

He intends to call a conference on land and naval armaments at the earliest moment consistent with probable success, when the European settlement has shown such results that fear of invasion on the continent will be minimized. The conditions he imposes leaves the conference out of the question until after the election, and, so far as this particular conference is concerned, makes it dependent upon Republican success.

**To Wait on Reparations.**  
The President met the correspondents at the temporary office he has established in the country store at the Plymouth Cross Roads, following a round of hay-pitching in the morning on his cousin's farm.

The President wants the disarmament conference to come after the matter of when the war reparations is to be paid is entirely out of the way and the Government no longer is troubled on that score. By that time and when the nations appear to have reached a more stable condition, he anticipates that the Powers of continental Europe will not be disturbed over the possibilities of attack.

As soon as he finds indication of these conditions, Mr. Coolidge intends to send out feelers and then approach the Powers diplomatically. It was made clear that negotiations have not yet been opened for the conference. The President thinks Europe is busy settling its own affairs and he feels he could not obtain practical results until these affairs are settled.

**View Regarding Allied Debts.**  
He takes a similar view regarding the debts of France, Italy and the smaller nations that have never refunded their obligations. He does not want to complicate the good work going on in Europe by stepping in and asking them to stop their own settlement and settle their debts to this country. He has no objection to negotiating over the debts, except as provided by the debt-refunding law, which makes no provision for cancellation.

An interesting development is that the World Court has sunk to a place of secondary importance in the President's interest. When he took office and when he submitted his name to the party for renomination, the court loomed as his big issue. He prevented the Senate bill-endorsers from writing an unfavorable court plank in the Cleveland platform.

Yesterday it was asserted on his behalf that, while he desires the World Court project carried out, he regards it of less consequence than the results he hopes to obtain from the new disarmament conference. The conference was rated as minor in importance, compared with the settlement of reparations. Among his other wishes, it was pointed out, was modification of international law.

**Sees Increased T. & Trade.**  
The natural result of the reparations settlement, in the President's opinion, will be a great increase in trade with Great Britain and the Continent. More goods will be manufactured and more will be sold to the United States. The volume of trade will grow. This will be to our advantage, he thinks, as imports come in as a basis that will enable American manufacturers and laborers to maintain their present standard. It was asserted that the President's view is that the United States should not be a net importer of goods.



PART TWO.

# COOLIDGE WILL LET PARLEY WAIT ON DAWES PLAN

President Tells Correspondents  
Reparations Agreement  
Comes Before  
Question of Disarmament.

## WILL NOT PRESS FOR ALLIED DEBTS

Executive Makes Known He  
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Results From Conference.

By the Associated Press.  
PLYMOUTH, Vt., Aug. 23.—President Coolidge, in his first session with newspaper men, today made known his views on reparations, foreign debts and disarmament.

His remarks, adoption of the Dawes plan and full operation of the plan as the issue of prime importance to both Europe and America, feeling that a general revival of business in Europe, with resultant prosperity to the United States, will follow. He believes continuation of a high protective tariff will be essential in the new situation.

He has decided that, despite the general economic rehabilitation Europe is expected to have, the present is not an opportune time to press for payment of the allied debts to the United States.

He intends to call a conference as soon as the situation permits, and the earliest moment consistent with probable success, when the European settlement has shown such results that fear of invasion on the continent will be entirely out of the question. He believes the conditions he imposes leaves the conference out of the question until after the election, and, so far as this particular conference is concerned, makes it dependent upon a Republican success.

**To Wait on Reparations.**  
The President met the correspondents at the temporary office he has established in the country house at the Plymouth Cross Roads, following a round of hay-making in the morning on his own farm.

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As soon as he finds indication of these conditions, Mr. Coolidge intends to send out feelers and then make the Powers of continental Europe consider the Powers diplomatic approach. It was made clear that negotiations have not yet been opened for the conference. The President believes Europe is busy settling its own affairs and he feels he could not obtain practical results until those affairs are settled.

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He takes a similar view regarding the debts of France, Italy and the smaller nations that have never repaid their obligations. He does not want to complicate the road work going on in Europe by stopping it and asking them to repay their debts to this country and settle their own settlement and settle their debts to this country. He has no intention of negotiating the debt, except as provided by the debt-refunding law, which makes no provision for cancellation.

An interesting development is that the World Court has sunk to the place of secondary importance in the President's interest. When he took office and when he submitted his name to the party for nomination, the court loomed as his big business. He prevented the Senate ratification from writing an unfavorable plank in the Cleveland platform.

Yesterday it was asserted on his behalf that, while he desires the World Court project carried out, the results he is desirous of obtaining are of less consequence than the settlement of reparations. The settlement of reparations, compared with the other matters, it was stated, was a modification of international law.

**Does Increased U. S. Trade.**  
The natural result of the reparations settlement, in the President's opinion, will be stimulated production in Great Britain and on the Continent. More goods will be sent to the United States. The volume of trade will grow. This will be to our advantage, he thinks, so long as imports come in as a basis for our exports. American manufacturers and laborers to maintain the present standard. It was ex-

# GERMANY WILL RATIFY LONDON ACCORD, DESPITE OPPOSITION'S CAMPAIGN

Government Prepared to Act Independently  
in Event the Reichstag Rejects Protocol.

By Special Cable to the Post-Dispatch and the New York World.  
Copyright, 1924, by the Press and Publishing Co., the New York World and the Post-Dispatch.

BERLIN, Aug. 23.—The German Government will sign the London agreement before the first of the month, irrespective of the action of the now volcanic Reichstag, the Foreign Office informed the Post-Dispatch today. The news comes on the heels of an abortive attempt of Chancellor Marx yesterday to address the parliamentary body in an effort to swing sufficient votes for the Dawes plan.

Marx had come with a prepared speech, pointing out that the advantages of the London agreement outweighed their burdens. He never got a chance to deliver it. The communists set up such howls they were frankly sabotaging the session, that he could not be heard.

President Wallerat rapped for order and tried to oust Deputy Schwarz, a grade school teacher, the loudest of the disturbers. Then the session adjourned for an hour. But Schwarz refused to leave the chamber. President Wallerat announced the session would not proceed if Schwarz remained. Schwarz laughed.

**Cabinet Leaves in Disgrace.**  
Marx, Foreign Minister Stresemann and the rest of the Cabinet thereupon folded up their papers and fled out from the Government benches in disgrace.

Marx made his speech today in an attempt to convince the German National party it should support the Dawes plan. At this time the Chancellor does not expect this effort to succeed. The Government, in fact, is prepared to dissolve the Reichstag if the Dawes laws fail of enactment.

After this, according to the Post-Dispatch's informant, the Government will sign the London agreement. Then there will be new elections. If the elections should bring the reactionaries back in full force or in larger numbers than at present, the German people themselves will have nullified the work of Marx and the peacemakers of London.

**Chance Not Likely to Be Renewed.**  
Chancellor Asserts.  
By the Associated Press.  
BERLIN, Aug. 23.—The London conference for launching the Dawes reparations plan gave Germany a chance which is not likely to be renewed if she rejects it. This was Chancellor Marx's warning to the Reichstag today, in the course of a carefully phrased but impressive description of the London negotiations.

The Chancellor's speech, which was to have been read at yesterday's session, but was then held up because of the Communist rowdiness, was a plain-spoken warning as well as a sturdy appeal to the Reichstag's conscience carefully to consider the alternative in the event it decides to reject the agreement signed by the German delegates in London.

Who will assure us that it will be possible to re-enlist American participation which, under the slogan of the Dawes report, has at last emerged from its aloofness, if one of the essential parties to the pact now fails to obtain its ratification at home? he asked the Deputies.

**Fate Depends Upon U. S.**  
The economic fate of Europe depends upon the fate of the London agreement, therefore, plunge us into a state of uncertainty, political and economically, the effect of which one can now foresee," he continued.

Marx prefaced his recital of the London negotiations by a frank admission that the German delegates could not boast of having achieved a signal success, as the nature of the task that awaited them in London was not of the sort that would insure unusual accomplishments. He praised Premier MacDonald's imperial conduct of the deliberations and the spirit of equality with which the German delegates were uniformly treated.

**Dawes Report Unpleasant.**  
The Dawes report was as unpleasant for the Germans as the Versailles treaty, he admitted, but it would be a step forward as compared with the existing state of affairs. For the first time since the war the Germans had met on an equal footing with the other Powers and many of their counter-proposals had been accepted. He declared that the German delegation had been confronted with an ultimatum, and declared that, while the decisions would burden the

plained that he contemplates no general change in the tariff. In connection with the tariff, it was announced that he has reached no conclusion on the recommended change in the sugar duty. He is still studying the Tariff Commission's sugar report.

With regard to Defense day, it

was said that the President has told the War Department the day would be a demonstration of the ability of officers and men in the regular army to conduct themselves with such fact as to avoid difficulties with the civil authorities. An interested spectator at the press conference was the Pres-

# KIEL SIGNS PETITION ON COURTHOUSE SITE

Says He Believes Location of  
Building Should Be De-  
cided by Voters.

Mayor Kiel has signed one of the petitions of the Courthouse Referendum Committee, which is seeking a referendum on the ordinance locating the new \$4,000,000 bond-issue courthouse on the Memorial plaza.

The Mayor, as is known, changed his mind a few months ago and decided that the site should be kept downtown. Some of the leaders in the courthouse referendum group, which favors a Broadway site, are warm personal friends of the Mayor. However, he said today his signature of the petition was an expression of his view that the question should be put up to the people. A majority vote upholding the referendum proposal would repeal the ordinance, making it necessary to relocate the edifice.

"The day the movie stars were here, Thursday," said Mayor Kiel, "a man circulating one of the petitions ran across me at the front entrance of Hotel Statler. He didn't know me and I didn't know him. He asked me if I was a registered voter and I told him I was. He asked if I would sign the petition, and I did. I think this is a matter the people ought to decide."

It will be recalled that after the Board of Aldermen passed the plaza site ordinance, and when it was awaiting executive approval or veto, the Mayor departed on a previous plan to trip to Europe without acting on it. President Neun of the Board of Aldermen, as acting Mayor, signed it.

Initial petitions of the Courthouse Referendum Committee were found to have a surplus of valid signatures. Supplementary petitions, which must be filed by Sept. 10, will have to bear about 14,300 valid signatures. The committee's stand having been occupied so far, a percentage of invalid ones. About 15,000 signatures have been obtained in the last week. It is expected to finish, with about 10,000 more, next week.

**DEMAND FOR WAR TROPHIES**  
Towns Want Captured War Devices to Decorate Parks.  
Special to the Post-Dispatch.  
WASHINGTON, Aug. 23.—The War Department and members of Congress are deluged with requests for "captured war devices and trophies" of the world war. Every town square with a German gun or cannon or something less formidable looking. There are plenty to go around, but the job of distribution has been brought on England. The Governors of the various states by Congress, is a big one.

**ITALIAN CABINET  
APPROVES ACCORD**  
By the Associated Press.  
ROME, Aug. 23.—Wholehearted approval of the conduct of the Italian delegates to the conference in London and of the work, looking toward general amelioration of European conditions, achieved by the conference, was given by the Italian Cabinet today three of its members, who made statements on the London meeting.

The session of the Cabinet, over which Premier Mussolini presided, was addressed by Minister of Finance De Stefani, Minister of National Economy De Nava and Minister of the Interior Federzoni. All of the Ministers were present.

The Italian delegates to the conference, the speakers said, believed that it was primarily necessary to insure the success of the conference in order to create an atmosphere of greater reciprocal confidence, thus leading to a spontaneous amelioration of relations between the European nations.

**President Has No Plans to Take  
Part in Maine Campaign.**  
By the Associated Press.  
PLYMOUTH, Vt., Aug. 23.—President Coolidge was reported today as pleased over the political situation, including that in Maine, although reports reaching here have been of a "casual" nature.

Mr. Coolidge is not discussed politically by Chairman Butler of the National Committee since coming here, and he is said to have no plans for taking part in the campaign, expecting his arrival here, his attention to duties of the office.

The President has no speaking engagements of a political nature. As a set in to pitch hay, the followers dashed into the field, but the President wielded his pitchfork manfully as Secret Service men attempted to leave him roomed. With Blanchard he soon had filled the bottom of a good-sized wagon, hoisting the hay up with apparent ease and smiling as broadly at the many persons who stood along the mountain road to view the scene.

Mr. Coolidge jumped onto the rear of the wagon once, the camera men crowded so close that the horses became excited and balked saucily for a moment. He kept his seat, however.

An engagement forced him to quit at the end of about 15 minutes. He was sweating slightly, a breeze neutralizing the rays of the bright sun.

**FRANCE ADOPTS WHEAT BILL**  
Price-Fixing Bill Passed by Chamber Amended in Senate.  
By the Associated Press.  
PARIS, Aug. 23.—The Senate today adopted a bill providing for price-fixing of wheat. The bill previously had been adopted by the Chamber of Deputies, but it will be returned to that body because it has since been amended.

The bill is part of the Government's campaign to reduce the price of bread, in connection with the recent price-fixing of wheat. The amount of chaff used in the manufacture of bread is increased by three per cent.

# SOCIETIES TO AID IN DEFENSE DAY PLANS

Committee Representing More  
Than 100 Organizations to  
Assist Government.

Special to the Post-Dispatch.  
WASHINGTON, Aug. 23.—A national committee, representative of more than 100 national veteran and patriotic societies, will meet at Continental Hall, Aug. 29, to make plans for assisting the Government in carrying out its Defense day plans. Addresses will be made by Major General John L. Hines, who will succeed Gen. Pershing as chief of staff of the army, and other officials.

Lieutenant-Colonel G. G. Reiniger of the Field Artillery Reserve Corps, is executive secretary of the committee, which already has opened offices in Continental Hall.

The chief work of the committee will be to encourage co-operation between local chapters of the societies represented and to furnish information about the defense test and point out how local chapters can participate in making the progress of the National Government a success, says an announcement of the War Department.

Local Chambers of Commerce, Rotary, Kiwanis, Lions, Optimists and other civic clubs, and trade and labor unions are participating by joining forces with local committees of representatives of veteran and patriotic societies to co-operate in directing the defense test program.

The forming of the national committee is the result of correspondence between the Secretary of War and Mrs. Ann Wayne Cook, president-general of the Daughters of the American Revolution, who is chairman of the committee. Societies included represent those who have served in every war fought by this country, or their descendants.

# ALLEGES MACDONALD SIGNED RUSSIAN PACT UNDER THREAT

Newspaper Asserts Six Members of  
British Cabinet Received Jew-  
els From Russia.  
Copyright, 1924, by the Press and Publishing Co., the New York World and the Post-Dispatch.

PARIS, Aug. 23.—Boris Souverain's Russian newspaper organ, "Veche Vremia" (Evening Times), published in Paris, makes the assertion that Ramsay MacDonald, British Premier, signed the Russo-British agreement under threat of the revelation of all belonging to members of his Cabinet who, says "Veche Vremia," received valuable jewels from Russia.

The story related by Souverain's newspaper is that an intermediary, a young woman who recently went to Russia on a solo artistic quest, a number of fine Russian jewels brought to England. These jewels, emeralds, pearls, diamonds and other precious stones of remarkable beauty and weight, were sent to six members of MacDonald's Cabinet, all belonging to the committee directing the London Daily Herald. They were sent in boxes of chocolates, the jewels being concealed inside the candies.

A single box was returned by its recipient. So when Moscow ordered "sign or we reveal the names of your six comrades who received and kept out chocolates," MacDonald signed.

**MEXICO ORDERS CHINESE  
TONG LEADERS DEPORTED**  
Four Arrested in Mexico; One  
Other Caught by Officials; 11  
Slain Since May.

By the Associated Press.  
MEXICALI, Lower California, Aug. 23.—The deportation of five Chinese, said to be leaders in Chinese gangs here, was ordered yesterday by President Obregon, in hope of preventing a recurrence of fighting wars similar to those in Sonora about three years ago, in which several hundred Orientals were killed within a year.

Four of the alleged tong men were arrested within an hour after receipt of President Obregon's order, but the fifth, Enrique Chee, who is said by authorities to have come here recently from San Francisco to succeed his slain brother, Francisco Chee, as the ruling head of the Chee tong, still is being sought by Mexican immigration officials.

According to police, 11 Chinese have been killed since Francisco Chee was slain by tong men last May.

**FRANCE ADOPTS WHEAT BILL**  
Price-Fixing Bill Passed by Chamber Amended in Senate.  
By the Associated Press.  
PARIS, Aug. 23.—The Senate today adopted a bill providing for price-fixing of wheat. The bill previously had been adopted by the Chamber of Deputies, but it will be returned to that body because it has since been amended.

The bill is part of the Government's campaign to reduce the price of bread, in connection with the recent price-fixing of wheat. The amount of chaff used in the manufacture of bread is increased by three per cent.

# TWO MARS MOONS CIRCLE PLANET 3 TIMES DAILY ASTRONOMER SEEKS THIRD

Giant Telescope Reveals 700-Mile Ice Peak to  
Be Shrinking Rapidly—No Sig-  
nals Expected.

By the Associated Press.  
FLAGSTAFF, Ariz., Aug. 23.—Recording what they held to be the most favorable observations of Mars that they have been able to make since 1909, astronomers and their assistants at Lowell observatory here late last night and early today gathered data on the progress of what they presumed to be vegetative growth on the red planet as it swept relatively close to the earth.

By the Associated Press.  
CHICAGO, Aug. 23.—Search for a third moon of Mars and a study of the moisture content in the air which may encircle the planet are being made by scientists here.

"There is a bare chance that we may discover another moon around Mars," said Prof. Edwin B. Frost of the University of Chicago, in charge of the university's Yerkes observatory at Williams Bay, Wis. about 6:30 o'clock last night the planet was closer to the earth than it has been for 120 years or will be again before 2007 A. D.

Mars is already credited with possessing two moons, one named Fear, 10 miles in diameter, and the other, Dread, 35 miles, both traveling around Mars three times a day, he explained.

Last night's study of the planet through the 40-inch telescope at Yerkes observatory revealed a cap of ice 700 miles in width. This ice field is rapidly shrinking, Prof. Frost declared, and within a few weeks will have disappeared entirely, and astronomers then will have a better opportunity to observe any vegetation that may grow there.

"Mars seems to be an arid continent," Prof. Frost said. "One of the things we are most anxious to do now is verify or discredit our belief that the amount of vapor there is small."

"It is perfectly reasonable to believe that there is plant life on Mars—possibly a fungus growth. In fact, I am of the opinion that the canals you have heard so much about are nothing more than big stripes of vegetation. As for life existing on the planet, that is almost out of the question. One thing is certain. If there are any animals there, they must be able to stand extreme heat and cold."

"The notion of getting signals from there is ridiculous."

# LESS WATER ON MARS THAN EARTH

PARIS, Aug. 23.—"When shall we get into communication with Mars?" Echoed Camille Flammarion, octogenarian French astronomer, to a question put by the Petit Parisien.

"Perhaps, perhaps they (the Martians) already tried at the epoch of the Iguanodon and the Dinosaur and got tired. As to the luminous projections observed on Mars, are they signals or simply reflections of the sun on peaks? That mystery I would be as bold to affirm as unscientific to deny. Who knows if this year will settle the question?"

Flammarion has no doubt that there are inhabitants on Mars. "The fact of their existence," he says, "is a natural conclusion from observations of their planet. By what miracle could the forces of nature, existing under identical conditions be sterile there and productive here? Their world is astonishingly like ours."

"Certainly there is less water. There are no great oceans there as here, but rather little seas—"Mediterranean." The many spotted patches of dark green no doubt are caused by vegetation of marshes with long floating weeds like the famous Sargasso in which the descendants of Columbus lost themselves.

"The Martians are happier than we and have all much more intelligent. First, because their planet is several million years older than ours and progress is a law; then because they are less governed by matter, the gravity there being less."

"Besides, as the years are nearly twice as long, the Martian is only 50 when we are 94. Finally the climate is more equable."

**Paris Astronomer Says Mars Has  
Cooler Climate Than Earth.**  
By the Associated Press.  
PARIS, Aug. 23.—Mars theoretically is habitable, according to Prof. Guillaume Bigourdan, official astronomer at the Paris Observatory, member of the Academy of Sciences and president of the Bureau of Longitude, but communication with Mars, he thinks, is rather beyond his scientific mind for the present.

"It is already a beautiful act of faith to suppose that there are Martians," he said today. "The use of wireless would require them to have sending and receiving stations, and that is an extremely audacious assumption."

"Mars has an atmosphere, and therefore life is possible. The tem-

# LA FOLLETTE BARRED ON KANSAS BALLOT

Attorney-General Rules His  
Name Cannot Surmount  
Group of Electors.

By the Associated Press.  
TOPEKA, Kan., Aug. 23.—On the ground that Senators La Follette and Wheeler are not running for office under any party designation, Attorney-General Griffith today ruled that their names could not be printed on the Kansas ballot surmounting the names of a group of electors, even though those electors be pledged to vote for the independent candidates.

The Attorney-General held there was no question of the right of any person to get his name on the ballot as an elector, if he presented a petition with the requisite of 1500 names and that the petition might indicate he was pledged to vote for any given candidate.

Griffith held, however, that the Kansas law, which directs the grouping of party electors with the names of the presidential and vice-presidential candidate above each group, could not apply in this case, and the La Follette electors would be grouped as "Independent," with any other independent candidates. The voters, he said, would have to be advised by some method other than the ballot, just whether electors were pledged to La Follette and Wheeler.

Rodney Edward, State chairman of the independent campaign committee, who sought the Attorney-General's opinion, indicated he would accept the decision as final.

**La Follette Campaign Managers  
Confer in Washington.**  
By the Associated Press.  
WASHINGTON, Aug. 23.—Availability of establishing a Southern headquarters in either Atlanta, Ga., or Birmingham, Ala., was one of the subjects before members of the committee directing the La Follette-Wheeler campaign, who gathered here today for a conference.

While a decision had been reached to establish a regional headquarters in the South, with a view to conducting a vigorous campaign in that section of the country, the campaign managers were in doubt as to where the offices should be located, although it was generally agreed they should be established either in Birmingham or Atlanta.

Senator La Follette has received a report from Attorney-General Ekern of Wisconsin, as to the success attending efforts to solicit funds from the public.

Ekern, who is directing this phase of campaign activity, has headquarters in Chicago. He has to Washington, after visiting New York and other Eastern cities to discuss progress made thus far, with the candidates, and was in conference with him for several hours last night.

Thus far nothing has been disclosed as to the amount of money that will be collected to finance the campaign. The committee has been charged solely with receiving contributions from the public.

William H. Johnston, president of the International Association of Machinists, is in charge of the solicitation of funds from labor organizations and their membership.

**Bryan to South Dakota Labor Day.**  
By the Associated Press.  
LINCOLN, Neb., Aug. 23.—Gov. Charles W. Bryan, Democratic vice-presidential candidate, today accepted an invitation to address a gathering of farmers at Elk Point, S. D., Labor day. It will be Bryan's first campaign address outside the State of Nebraska.

**Texas Educator Dead.**  
By the Associated Press.  
DALLAS, Tex., Aug. 23.—Dr. F. M. Bralley, president of the College of Industrial Arts at Denton, Tex., one of the largest girls' schools in the Southwest, died in a hospital here this morning. He had suffered from pneumonia.

## Ku Klux Klan Pays Honor to Jew

This is an unusual story of how the K. K. K. and an entire Illinois County honored "Manny" Steiner on the 50th anniversary of the opening of his store at Fairfield.

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## ST. LOUIS POST-DISPATCH

Founded by JOSEPH PULITZER

Dec. 12, 1878.

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## THE POST-DISPATCH PLATFORM

I know that my retirement will make no difference in its cardinal principles, that it will always fight for progress and reform, never tolerate injustice or corruption, always fight demagogues of all parties, never belong to any party, always oppose privileged classes and public plunderers, never lack sympathy with the poor, always remain devoted to the public welfare, never be satisfied with merely printing news, always be drastically independent; never be afraid to attack wrong, whether by predatory plutocracy or predatory poverty.

JOSEPH PULITZER

April 10, 1907.

## LETTERS FROM THE PEOPLE

The name and address of the author must accompany every contribution, but no request will not be published. Letters not exceeding 200 words will receive preference.

## Ruskin's Foolish Remark.

I AM interested in an article which appeared in your paper on the 20th headed, "Don't Be a Poet!" I disagree with it quite thoroughly, of course, and that's why I am writing.

The author of the article quoted Ruskin's "Don't be a poet" to support his argument. In the very nature of Ruskin's statement is an incongruity. Not that he didn't say it—he did. But he must have said it in a restless or thoughtless moment. Ruskin, you know, was the artist who recommended the spreading out of the concentrated city population into rural districts, where every man would take pleasure and find happiness by making and using home-manufactured articles. His reconstructed man would make his own book-ends, garden, and these things would be valuable in proportion to the individuality the man put into them. Now, when you get a man expressing in any way his individuality, you have an artist. A poet is a man who lives his artistry. Thus, Ruskin's philosophy cries out, "I want a state of society in which every man lives a life of poetry," and yet he said once, "Don't be a poet!"

Quoting that "Don't be a poet!" as the author of the article chose, unfortunately or purposely, the one point in Ruskin's life that he developed philosophy refutes. This, of course, makes his case groundless.

Then the proportions stated were astounding. Germany had a poet to every 10,000 citizens; America more than two to 10,000 citizens. This may be true, but there seems to be no conclusive evidence that Germany's one is any more "worthwhile" than our two. And then, too, the author did not give any special remedy for reducing the number in America. Further, just how is one to know whether his poetry is any more "worthwhile" than the other's? Who would thought we should read "The Spoken River Anthology?" and yet it has its place.

While we are on the subject of poetry writing, has it ever occurred to you that poetry has a relation to the intellectual and esthetic state of a nation? Neither ignorant nor foolish men write poetry. The nature of the art prevents this. It is the sincere striving of a feeling man to express himself artistically. Are we to quarrel with a man who attempts to express himself and fails? Scarcely. It was the trying that was morally worthwhile, and not necessarily the acclaimed success of his rhetoric.

I was talking recently to one of the professors of literature in Washington University about poetry writing, and he said (quite on his own hook, too) that one of the most promising things in society today is that some men and women are still writing and thinking poetry. And I believe it!

THEODORE C. WYDOE,  
Alumnus of Washington University,  
4429 Bartmer Avenue, St. Louis, Mo.

## Bring Back "Ladies' Day."

THIS is in support of "A High School Girl's" letter which appeared in Tuesday evening's Post-Dispatch concerning Ladies' Day at Sportsman's Park.

Why punish all the women on account of a foolish few? The complainants are very poor sportswomen, or they never would have complained. It is like criticizing a free movie.

The management cannot be blamed for its decision; but I, together with many others, wish it were otherwise.

Cannot some plan be formulated whereby "Ladies' Day" may be brought back to the women of St. Louis?

As for myself, I'd rather see one ball game than 10 movies, and this punishment is not only depriving high school girls of high-class entertainment, but also many mothers.

A MOTHER.

## Come of High Rent.

I READ your article tonight by "A Reader" on "For Rent Signs," and evidently his opinion is only born of desire.

It is quite possible that he owns no property and would rather find fault than try to own even his own home.

If he will but send a plumber, carpenter or other artisan out to make a few simple repairs and pay present wages and material bills, he will soon realize "Why High Rent."

He probably thinks he is now underpaid for what he does, as well as paying too much for what he buys.

If Mr. Reader will only think, he will know that cursing high prices will not lower them, any more than a pacifist can prevent war.

There is a fundamental reason back of it all. Our dollar is only worth now in buying power \$1 cent as compared to previous days, and cost of war must be met.

If Mr. Reader does not think America the best, best and safest place to live, he should try some other country and he will come back convinced it is God's land.

A PROPERTY OWNER.

## TEXAS UNDER SURVEILLANCE.

Texas now steps into the center of the political stage. The whole country will watch, with lively interest, the result of the run-off primary today.

Personally the issue lies between Mrs. Miriam Ferguson, antikan candidate for the Democratic nomination for Governor, and Judge Robertson, the klan candidate. Of course, the issue goes far deeper than mere personality. It has been defined vigorously by Albert S. Burleson, Postmaster-General during the Wilson administrations, in what might be called the best Texas manner:

Shall the affairs of this State be administered by a Governor confessedly blinded by intolerance and saturated with sectarian and racial prejudice; shall liberty of conscience and freedom of religion be upheld, or shall narrow bigotry be given full sway? Shall the law be administered through regular channels in our court-houses in the light of open day, or shall creek-bottom trials by hooded men, in the dead of night, followed by whippings, tar and feathers or lynchings, be the order of the day?

That is the choice the citizens of Texas will have to make tomorrow. Mr. Burleson makes his choice without hesitation: "I shall vote for Mrs. Ferguson." He does not stop there. He pays his respects to the 15 Protestant ministers of a Texas city who have appealed to the members of their churches to support Judge Robertson. He asks what those gentlemen would think if a number of Catholic priests should write in an appeal to their parishioners to vote as a bloc for some particular candidate.

It is regrettable beyond words that any group of ministers should thus have to be taken to task, but it is well that Texas has a citizen of consequence with the courage to do it. For the full force of this rebuke will surely be understood. Mr. Burleson is stating the obvious truth that if the Protestant churches of the country go into politics, and that is what they are doing when their ministers ally themselves with the klan or electioneer for klan candidates, the other churches, soon or late, will be compelled in self-defense to go into politics. We should then have a situation which no thoughtful citizen can contemplate without horror.

A klan victory in Texas today would be the gravest misfortune that could befall that State. Fortunately the reports from Texas are that the klan candidate will be repudiated.

## WHEN REQUISITION IS REFUSED.

Less than a month ago a petty official at the Illinois Statehouse at Springfield, performing in the name of Gov. Small, refused the State of Missouri's requisition for an Italian who had been positively identified by four persons as Joe Delbono, wanted for the wanton murder of a boy whose only offense was that he had protested the "hogging" of the highway by four Italians, who crowded his automobile off of a culvert and into a ditch.

In less than a month, while this man has been at liberty by the grace of the Illinois officials, two men have been shot at Springfield. One, as he was dying, said the man who shot him was the man for whom requisition had been refused, and that he had been shot because he knew too much about the Missouri murder. The Springfield police believe that the shooting of the other man, now hovering between life and death, was for the same cause.

The assassin, whoever he is, is not to be blamed for shooting two men within less than a month. Refusal of the requisition, in the face of positive identification, was equivalent to notification to him that he, as a member of a considerable voting bloc in Illinois, was high in the favor of the administration in power. He had reason to think that, if that administration, functioning through a petty official, would not permit him to be taken to the scene of his alleged crime in Missouri, it would throw the mantle of compassion about murders and other peccadilloes in its own jurisdiction.

It was difficult to account, at the time of the application for the requisition, for the refusal of Illinois to surrender to Missouri a man wanted for a heinous crime. The action is still more inexplicable in view of what followed. The man has disappeared, but it is not to be supposed that he will leave Illinois. In no other state could he find such refuge.

## THE ROUGE NECKS.

(From the Pittsburgh Courier.)









NEW YORK STOCKS

Special to the Post-Dispatch. NEW YORK, Aug. 23.—Total sales were 233,000 shares. The market was active and prices were generally higher. The following are a list of the day's trading in the various lines covered. The figures are in dollars and cents. The figures are in dollars and cents. The figures are in dollars and cents.

Table with multiple columns listing stock prices for various companies including Air Red, Air Blue, Air Green, etc. Includes a section for 'STOCK MARKET AVERAGES' showing indices for Dow Jones, Standard & Poor's, etc.

Foreign Exchange

Table showing exchange rates for various foreign currencies including British pounds, French francs, German marks, etc.

St. Louis Stocks

Table listing stock prices for various companies in the St. Louis market, including local and regional firms.

Evening Trade in Cotton at New York

Table showing cotton futures prices and trading activity in New York, including different grades and contracts.

New York Cotton

Table listing cotton futures prices and market conditions in New York, including different grades and contracts.

NEW YORK BONDS

Special to the Post-Dispatch. NEW YORK, Aug. 23.—Following is an official list of bonds traded in the New York Stock Exchange today with prices. The market was active and prices were generally higher.

Table listing bond prices for various government and corporate issues, including Treasury bonds and municipal bonds.

Foreign Bonds

Table listing prices for foreign government bonds from various countries including Argentina, Brazil, and Chile.

Metals and Equipments

Table listing prices for various metals and industrial equipment, including copper, iron, and machinery.

Railroads

Table listing stock prices for various railroad companies, including Great Northern, Santa Fe, and Union Pacific.

Clearings, Money, Silver

Table showing financial data including clearing amounts, money market rates, and silver prices.

NEW YORK CURB

Special to the Post-Dispatch. NEW YORK, Aug. 23.—Following is a list of the day's trading in the New York Curb Market. The market was active and prices were generally higher.

Table listing prices for various commodities and goods traded in the New York Curb Market, including oil, sugar, and other raw materials.

Domestic Bonds

Table listing prices for domestic government and corporate bonds, including Treasury bonds and municipal bonds.

Foreign Bonds

Table listing prices for foreign government bonds from various countries including Argentina, Brazil, and Chile.

Metals and Equipments

Table listing prices for various metals and industrial equipment, including copper, iron, and machinery.

Railroads

Table listing stock prices for various railroad companies, including Great Northern, Santa Fe, and Union Pacific.

Clearings, Money, Silver

Table showing financial data including clearing amounts, money market rates, and silver prices.

Bond Sales - Continued

Table listing details of bond sales, including the amount sold, the price, and the buyer.

Railroad Bonds

Table listing prices for various railroad bonds, including Great Northern, Santa Fe, and Union Pacific.

GRAIN PRICES BREAK ON LOCAL EXCHANGE

ST. LOUIS, Aug. 23.—Following is the official list of grain prices on the local exchange today. The market was active and prices were generally higher.

Table listing grain prices for various types of wheat, corn, and other grains, including different grades and contracts.

Butter, Eggs and Poultry

Table listing prices for butter, eggs, and poultry, including different grades and contracts.

Mineral

Table listing prices for various minerals and ores, including copper, iron, and other metals.

Wheat

Table listing prices for different grades of wheat, including hard red winter and soft red winter.

Corn

Table listing prices for different grades of corn, including yellow and white.

ENORMOUS SELLING OF WHEAT ON CHICAGO MARKET

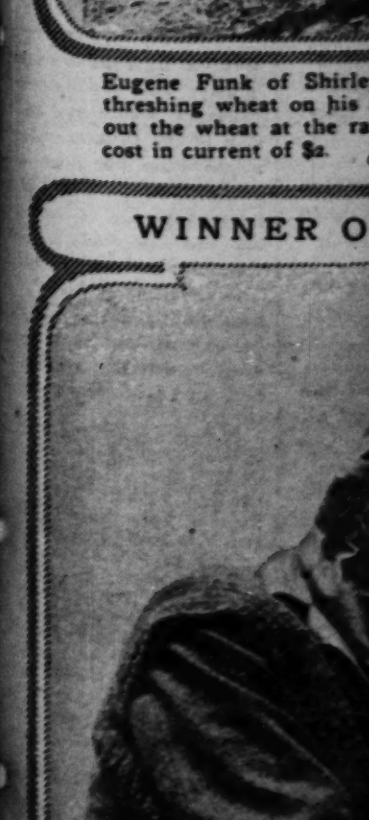
CHICAGO, Aug. 23.—An enormous selling of wheat took place on the Chicago market today, with prices generally higher. The market was active and prices were generally higher.

Chicago Produce

Table listing prices for various produce items, including apples, pears, and other fruits.

Produce

Table listing prices for various produce items, including vegetables and other foodstuffs.





GRAIN PRICES BREAK  
ON LOCAL EXCHANGE

ST. LOUIS MERCHANTS' EXCHANGE  
Aug. 23.—Following is a summary of today's high, low and closing prices for grain on the local market as received from Kansas City and Chicago markets:

	High	Low	Close	Yr. Day
SEPTEMBER WHEAT				
St. L. 127 1/2	126 1/2	121 1/2	123 1/2	123 1/2
Chi. 125 1/2	125 1/2	120 1/2	122 1/2	122 1/2
K. C. 118 1/2	118 1/2	114 1/2	116 1/2	116 1/2
DECEMBER WHEAT				
St. L. 128 1/2	128 1/2	123 1/2	125 1/2	125 1/2
Chi. 130 1/2	130 1/2	125 1/2	127 1/2	127 1/2
K. C. 121 1/2	121 1/2	116 1/2	118 1/2	118 1/2
MAY WHEAT				
St. L. 124 1/2	124 1/2	119 1/2	121 1/2	121 1/2
Chi. 135 1/2	135 1/2	130 1/2	132 1/2	132 1/2
K. C. 126 1/2	126 1/2	121 1/2	123 1/2	123 1/2
SEPTEMBER CORN				
St. L. 110 1/2	110 1/2	105 1/2	107 1/2	107 1/2
Chi. 115 1/2	115 1/2	110 1/2	112 1/2	112 1/2
K. C. 104 1/2	104 1/2	100 1/2	102 1/2	102 1/2
DECEMBER CORN				
St. L. 108 1/2	108 1/2	103 1/2	105 1/2	105 1/2
Chi. 107 1/2	107 1/2	102 1/2	104 1/2	104 1/2
K. C. 100 1/2	100 1/2	95 1/2	97 1/2	97 1/2
MAY CORN				
St. L. 107 1/2	107 1/2	102 1/2	104 1/2	104 1/2
Chi. 109 1/2	109 1/2	104 1/2	106 1/2	106 1/2
K. C. 101 1/2	101 1/2	96 1/2	98 1/2	98 1/2
SEPTEMBER OATS				
St. L. 56 1/2	56 1/2	51 1/2	53 1/2	53 1/2
Chi. 58 1/2	58 1/2	53 1/2	55 1/2	55 1/2
K. C. 50 1/2	50 1/2	45 1/2	47 1/2	47 1/2
DECEMBER OATS				
St. L. 57 1/2	57 1/2	52 1/2	54 1/2	54 1/2
Chi. 59 1/2	59 1/2	54 1/2	56 1/2	56 1/2
K. C. 51 1/2	51 1/2	46 1/2	48 1/2	48 1/2
MAY OATS				
St. L. 55 1/2	55 1/2	50 1/2	52 1/2	52 1/2
Chi. 57 1/2	57 1/2	52 1/2	54 1/2	54 1/2
K. C. 49 1/2	49 1/2	44 1/2	46 1/2	46 1/2
SEPTEMBER RYE				
St. L. 87 1/2	87 1/2	82 1/2	84 1/2	84 1/2
Chi. 89 1/2	89 1/2	84 1/2	86 1/2	86 1/2
K. C. 81 1/2	81 1/2	76 1/2	78 1/2	78 1/2
DECEMBER RYE				
St. L. 88 1/2	88 1/2	83 1/2	85 1/2	85 1/2
Chi. 90 1/2	90 1/2	85 1/2	87 1/2	87 1/2
K. C. 82 1/2	82 1/2	77 1/2	79 1/2	79 1/2
MAY RYE				
St. L. 87 1/2	87 1/2	82 1/2	84 1/2	84 1/2
Chi. 89 1/2	89 1/2	84 1/2	86 1/2	86 1/2
K. C. 81 1/2	81 1/2	76 1/2	78 1/2	78 1/2

**ST. LOUIS MERCHANTS' EXCHANGE**  
Aug. 23.—Grain futures closed at the week-end session on the local market. Increased estimate of domestic wheat crop as compared with two months ago was a bearish factor in the wheat market where the range during the day extended to 10 or more. Corn was a weather market. The range extended 4c during the day. Both markets at week-end were largely under the prevailing levels at start of period.

In the local cash grain market soft wheat was 2c to 3c lower and hard down 2c to 3 1/2c. There was fair demand and slow. Cash oats were 1 1/2c to 2c lower. Demand was limited.

Both wheat and corn opened lower and in the first hour wheat had a lower range of 2 cents and corn of 1 1/2c. Continued weak and shifty conditions in the open brought about the break in corn and influenced wheat prices despite recent report of export business.

September wheat opened at \$1.27 1/2, December wheat \$1.28 1/2, May wheat \$1.34 1/2. September corn \$1.12, December corn \$1.05 1/2 and May corn \$1.09 1/2.

The three Northwestern markets combined had 348 cars of wheat, compared with 310 a week ago and 604 last year. Minneapolis received 236 cars, Duluth 93 and Winona 19.

Local wheat receipts, which were 237,402 bushels, compared with 281,773 a week ago and 183,370 last year. Included 127 cars local and 54 through. Corn receipts, which were 105,000 bushels, compared with 50,400 a week ago and 74,100 last year. Included 68 cars local and 7 through. Oats receipts, which were 132,000 bushels, compared with 212,000 a week ago and 98,000 last year. Included 53 cars local and 13 through. May receipts were 5 cars local and 7 through.

Primary receipts of wheat were lighter than a week ago, and heavier than a year ago, being 2,881,000 bushels. Corn receipts were lighter than a week ago, but heavier than a year ago, being 481,000 bushels. Oats receipts were heavier than a week ago and heavier than a year ago, being 1,305,000 bushels.

**St. Louis Cash Grain.**  
Sales of cash grain made on the Exchange Saturday were as follows:

WHEAT.	
No. 1 red winter.....	\$1.40
No. 2 red winter.....	\$1.38
No. 3 red winter.....	\$1.36
No. 4 red winter.....	\$1.34
Sample grade red winter.....	\$1.32
No. 1 hard.....	\$1.40
No. 2 hard.....	\$1.38
No. 3 hard.....	\$1.36
No. 4 hard.....	\$1.34
Sample grade hard.....	\$1.32
No. 1 mixed.....	\$1.38
No. 2 mixed.....	\$1.36
No. 3 mixed.....	\$1.34
No. 4 mixed.....	\$1.32
Sample grade mixed.....	\$1.30

CORN.	
No. 2 yellow.....	\$1.00
No. 3 yellow.....	\$1.00
No. 4 yellow.....	\$1.00
Sample grade yellow.....	\$1.00
No. 1 white.....	\$1.00
No. 2 white.....	\$1.00
No. 3 white.....	\$1.00
No. 4 white.....	\$1.00
Sample grade white.....	\$1.00

OATS.	
No. 1 white.....	\$0.70
No. 2 white.....	\$0.68
No. 3 white.....	\$0.66
No. 4 white.....	\$0.64
Sample grade white.....	\$0.62

ENORMOUS SELLING OF LONG  
WHEAT ON CHICAGO MARKET

**CHICAGO, Aug. 23.**—Enormous selling of long wheat flooded the pit immediately after the opening today and carried prices off 4 cents. A fair rally on short covering followed near the close, but the gains were accounted for the wave of liquidation aside from the fact that the wheat yield in North America has increased materially over the previous two years and the loss of cash grain on the market and to right have flattered buyers for the present.

One of the largest commission houses in the trade was said to have sold heavily of wheat early. The wheat was regarded as the selling out principally by a party who for months has been a bull on wheat, to say all grains. General liquidation followed on the local market. The week-end buying of September, credited to exporters, would add that there were at least 500,000 bushels domestic wheat sold abroad on the break.

Crop conditions over the American and Canadian Northwest are becoming less favorable for maturing and harvesting of spring wheat. The trade looks for an early heavy run of spring wheat from the farms on both sides of the international line. Wheat closed 2 1/2c to 2 3/4c lower. Longs in corn stampeded to sell out as this grain continued its collapse. On the break heavy shorts covering developed. The close was near the bottom. Weather conditions over the corn belt have improved materially the past week. At the last corn was off 1 1/2c to 2c lower. It was the same story in oats and rye. Liquidation carried the market down rapidly, overruling the feeble buying power covering by shorts was the stabilizing influence finally. Country offerings of new crop oats are increasing. Oats closed 2 1/2c to 2 3/4c lower.

Provisions slipped under belated liquidation. Commission house selling found the pit. Packers and cash interests were the best buyers on the break. The week-end depression influence in the provision market closed 2 1/2c to 2 3/4c lower. Prices were off 20c and clear bellies 30c to 50c.

Chicago Provisions

**CHICAGO, Aug. 23.**—Provision market ranges and closing follow:

	High	Low	Close	Yr. Day
LARD.				
September.....	13.45	13.30	13.05	13.45
October.....	13.50	13.35	13.07	13.45
RYE.				
September.....	11.50	11.50	11.50	11.50
October.....	11.75	11.75	11.75	11.75
BEEF.				
September.....	12.50	12.50	12.50	12.50
October.....	12.65	12.45	12.65	12.15

Produce Elsewhere

**NEW YORK, Aug. 23.**—Butter steady, receipts 100,000. Eggs firm, receipts 100,000. Cheese steady, receipts 100,000. Apples steady, receipts 100,000. Potatoes steady, receipts 100,000. Beans steady, receipts 100,000. Peas steady, receipts 100,000. Corn steady, receipts 100,000. Wheat steady, receipts 100,000. Oats steady, receipts 100,000. Rye steady, receipts 100,000. Barley steady, receipts 100,000. Clover steady, receipts 100,000. Hay steady, receipts 100,000. Stock market steady, receipts 100,000.

New York Bank Clearings

**NEW YORK, Aug. 23.**—New York clearinghouse, \$170,000,000. New York clearinghouse, \$170,000,000. New York clearinghouse, \$170,000,000. New York clearinghouse, \$170,000,000. New York clearinghouse, \$170,000,000.

Fiction and  
Women's Features

SATURDAY, AUGUST 23, 1924.

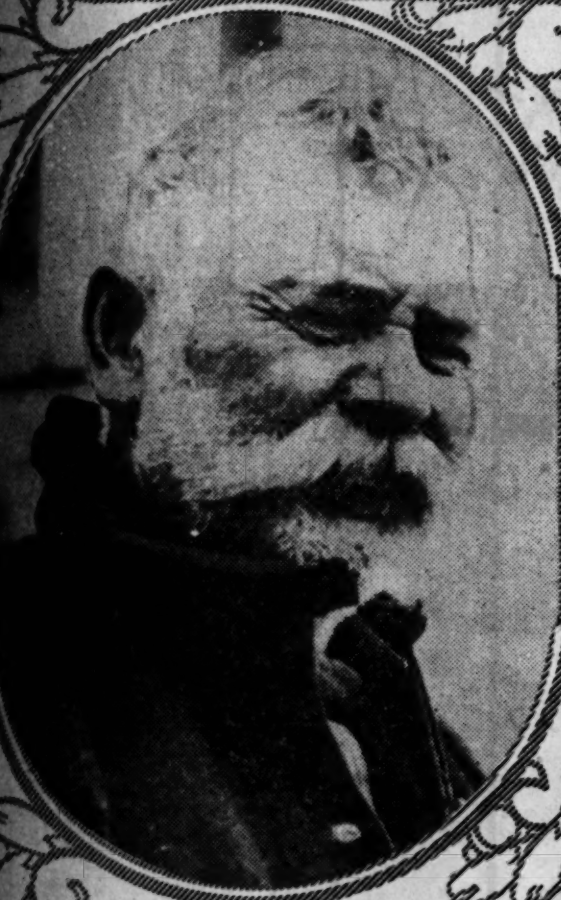
ST. LOUIS POST-DISPATCH  
DAILY MAGAZINE

Popular Comics  
News Photographs

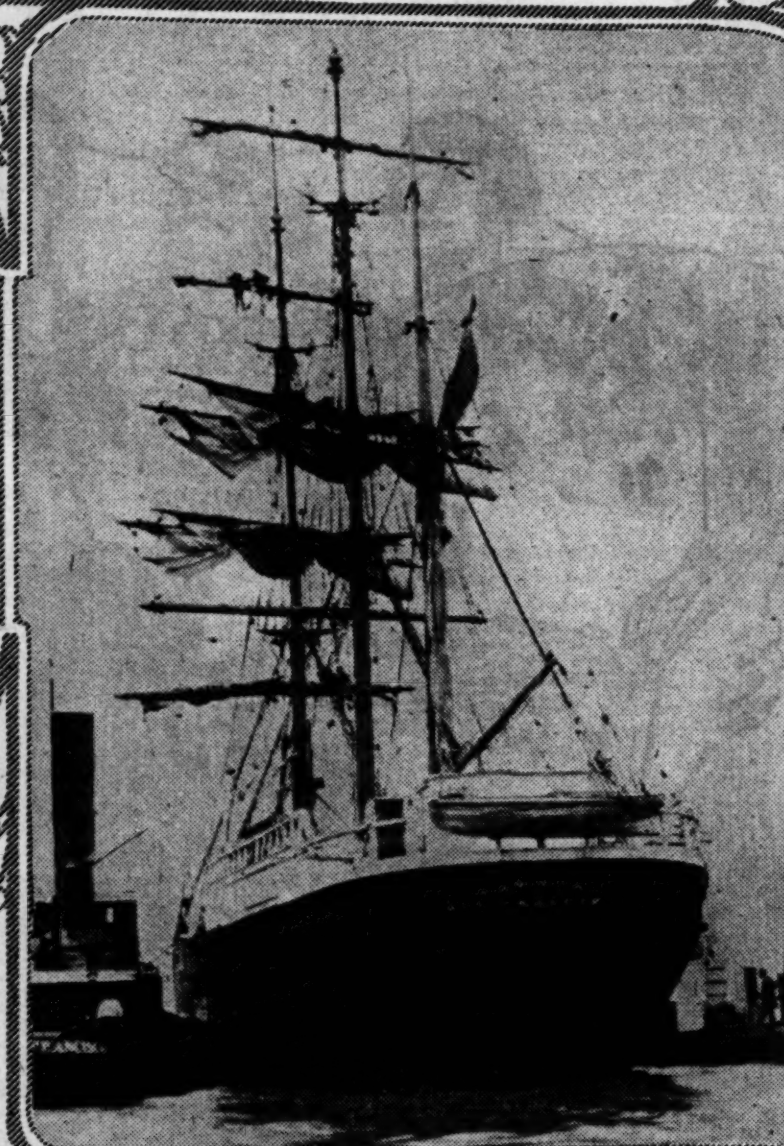
SATURDAY, AUGUST 23, 1924.

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TREASURE SEEKERS' QUEST FAILS



The bark Narwhal, which had been thought lost, has turned up very much alive. The Narwhal sailed from San Francisco, Feb. 28, 1923, with a company of adventurers, including former officers in the U. S. Navy, a Russian Count, a diplomat, scientists, writers, professional and business men from various parts of the United States. This picture shows the Narwhal arriving in San Francisco, and Capt. Charles Arty, who commanded the weird expedition in search of treasure.

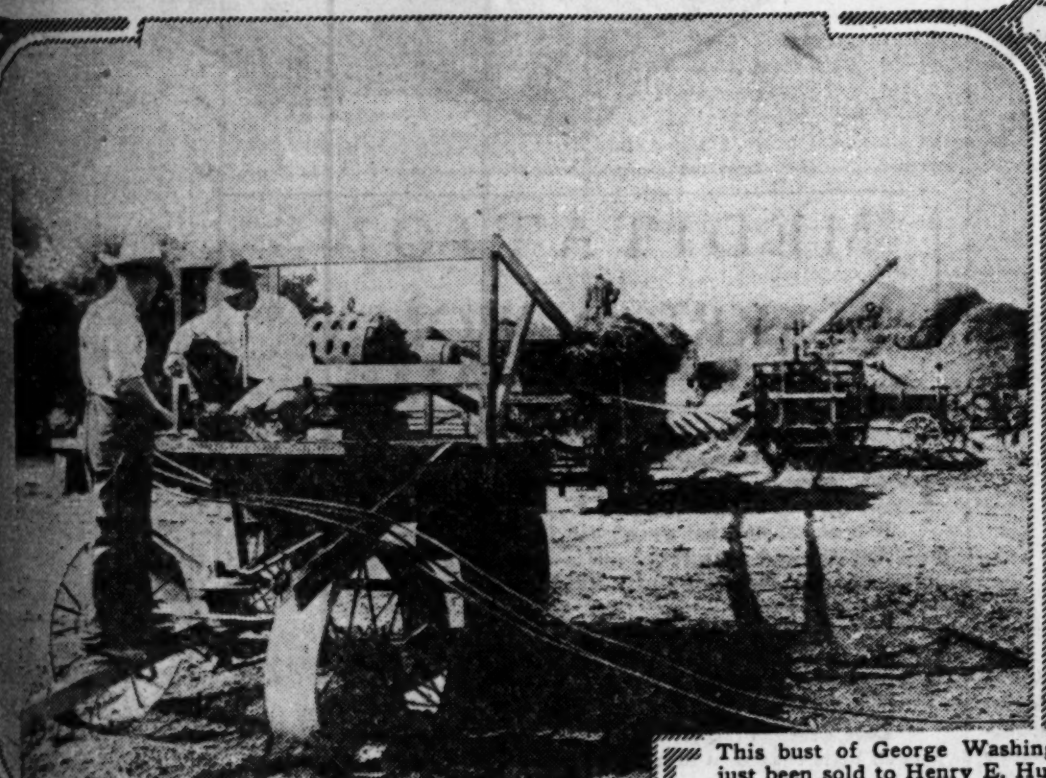


FUNERAL OF MRS. EVANS IN MEXICO



Members of the U. S. Embassy in Mexico attended the funeral of Mrs. Evans, the British subject who was murdered. From left to right are: Col. Russell, Military Attache of the American Embassy; Alexander Dye, the commercial Attache; Mr. Schoenfeld, Charge d' Affaires, and Mr. King, the British Consul in Mexico City.

THRASHING WHEAT BY ELECTRICITY



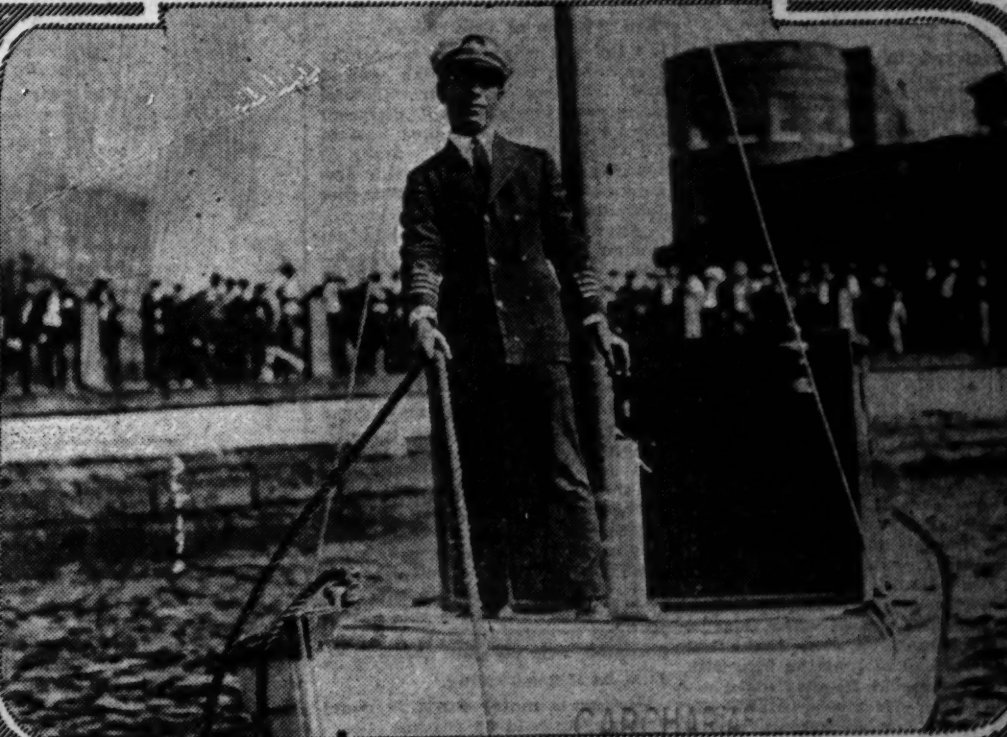
Eugene Funk of Shirley, Ill., utilizing electricity for thrashing wheat on his farm. The electric motor turns out the wheat at the rate of 133 bushels per hour at a cost in current of \$2.

BUST OF WASHINGTON  
SOLD AS JUNK



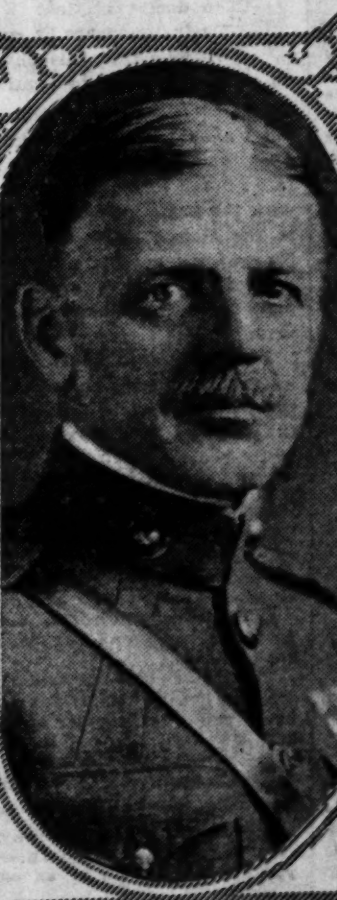
This bust of George Washington has just been sold to Henry E. Huntington for a price said to be \$10,000. The sale was for a junk dealer, who had bought it for \$25 in 1914 and had no idea of its great value until Jo Davidson, the sculptor, picked it up and examined it one day.

STARTS SAIL ROUND WORLD IN 22-FOOT BOAT



Dimetrios Sieglakis, 26, of Hoboken, N. J., who holds a skipper's license from the Greek Government, on the bow of the Carcharias. He expects to sail alone around the world in this wooden cockleshell, 22 feet long 7 feet wide and 3 feet in total depth.

TO COMMAND  
MARINES



Brigadier-General Dion Williams, U. S. Marine Corps, who has been appointed by Major-General Lejeune to command the Marines on their maneuvers this year.

PRESIDENT LOOKS ON  
AS EDISON "SHOOT"



President Coolidge opened the doors of his father's home at Plymouth, Vt., on Tuesday and welcomed fellow vacationers—Henry Ford, Thomas A. Edison, Harvey Firestone and his son, Russell Firestone. This photo, taken Aug. 19th, shows Edison working a camera as the President looks on.

WINNER OF BRITAIN'S AIR RACE



"MILLINER'S" BOAT ON THE SEINE



Cobham, winner of the great air race around England for the King's Cup.

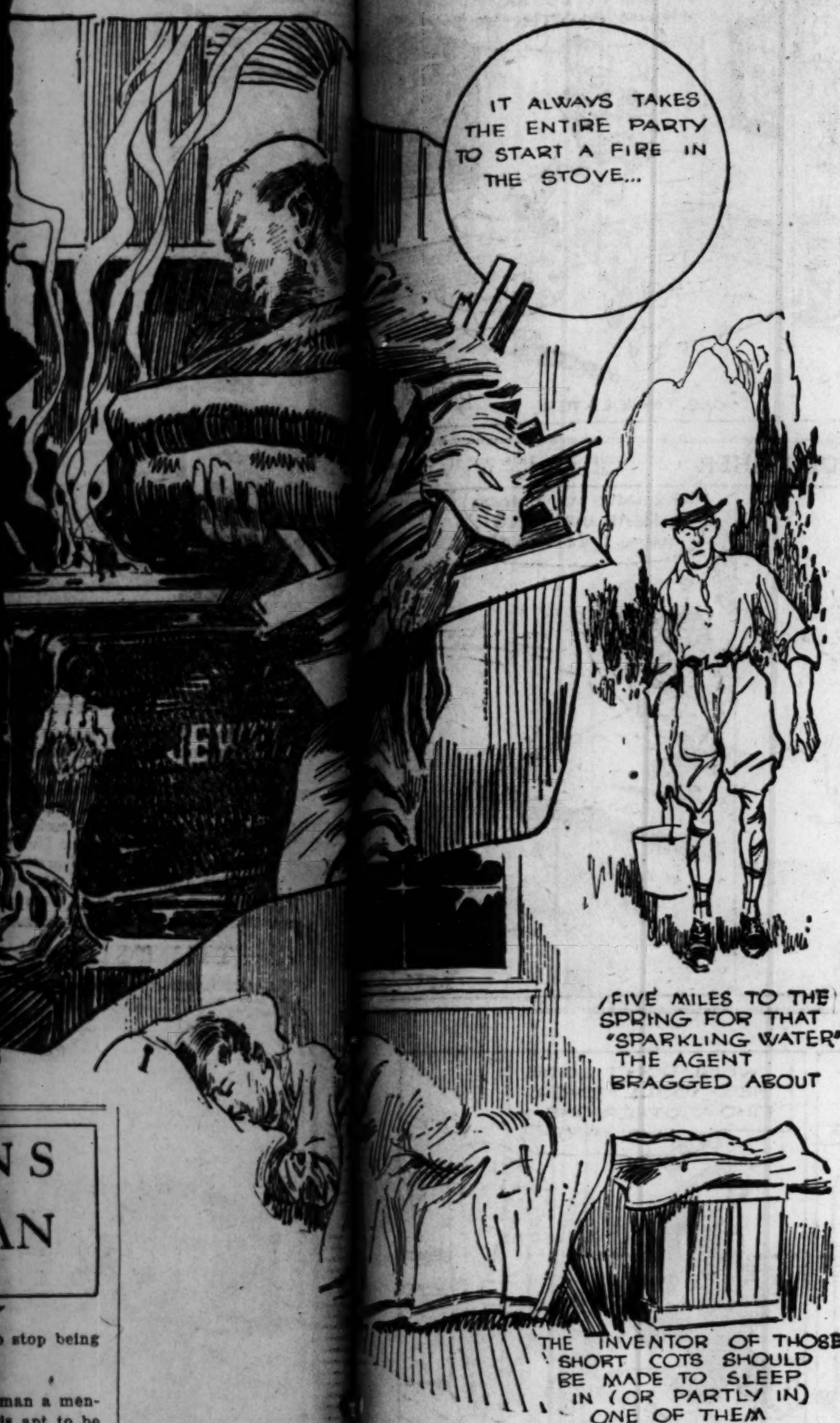
Fitted out as a floating millinery shop by Mme. Marthe Regnier, French actress and milliner.







## R BUNGALOW



BY FRANK GODWIN

## HOMAKING HELPS

"Every House Helps to Make the Home"

WANDA BARTON

IT is difficult to imagine what the old-fashioned keeper would say to the notion of the modern bedspread. It might close her linen closet upon them, for they are "linen" yet many of them are made of cotton or rayon. The modern bedspread welcomes them unreservedly. The dressing of beds is a household problem and the bedspread is one of the most important. Modern spreads are made of many materials, so by all means let them be.

If you have not a good spread, procure one as soon as possible. This spread is made of the bed, posts at the head and it is made long enough to reach the edge of the bed, a deep bed to within three inches of the floor. At the lower corners, the corners are tied together by gingham bow three inches hemmed on the edges.

The trimming consists of bias bands, stitched above the center of the spread. The initial is done in creases in the flange, the color of the flange may be chosen to suit the color of the room. The spread is quickly laundered.

Variations of the gingham are achieved by means of narrow bands, like the bias bands, on one spread, and these are placed in the center, which the cross-stitch design is embroidered on the edge may be feathered in place. Tape trimming on the edge is trimmed with ball fringe. Again, the rickrack insertion above the edge of the hem, a wonderfully crisp and attractive looking finish and beautiful. Plain gingham

## PHILOSOPHICAL PHRASES.

Remember that the true worth of a man is to be measured by the objects he pursues.

Read not to contradict and confute, nor to believe and take for granted, nor to find talk and discourse, but to weigh and consider.

Demands the best of Skinner's Macaroni.

Cuticura Talcum Unadulterated Exquisitely Scented

## FAIR WEATHER WIVES

By Mildred Barbour

**THE FIRST AWKWARD ENCOUNTER—CHAPTER 24.**

JUST before the party was over, Mrs. Boice-Nevis beckoned Marjorie to her side.

"Norris tells me that the chauffeur reports our car out of order. He says he can take one of us in his machine, but he already has Lella and Ivan."

The young man who had been Marjorie's dinner partner, and had clung persistently to her all evening with all the earmarks of being permanently fascinated, spoke up promptly.

"Allow me to drive Mrs. Boice-Nevis home, Mrs. Boice-Nevis. It would be a great pleasure, and not at all out of my way."

"Hm. Let me see, you live in Westchester, don't you, Ned?" queried Mrs. Boice-Nevis with good-humored raillery.

He flushed up to his sandy hair and began to stammer, but Mrs. Boice-Nevis laughed away his explanations and declined his offer as her daughter's escort. No use giving further impetus to gossip by allowing Marjorie to appear in public with other men at this early stage in the game.

"I'm sure Mrs. Forester will allow me to go home in her car, mother," said Marjorie in a low voice, "and you can go with Norris."

To this her mother graciously agreed, and presently Marjorie, sumptuously wrapped in one of the trousseau's choicest cloaks, followed Mrs. Forester but to her waiting limousine.

"We have to stop at the Ritz to pick up my nephew. I left him there playing bridge with some old friends from our home town, Chicago, you know. You won't mind if I run up to say an revoir to them, will you. They leave tomorrow. I won't keep you long."

When the car drew up at the hotel, she motioned Marjorie to precede her.

"You'd best wait inside. It's chilly tonight, and there's something wrong with the heating apparatus in this car."

Marjorie strolled into the foyer and was amusing herself gazing at the pretty jeweled trinkets displayed in a glass case, when a good-looking young man in a dinner coat came in, looked about uncertainly for a moment, then came forward with a hesitant smile.

"Pardon me—am I addressing Mrs. Hollister?"

At her surprised assent, his smile broadened, and he held out a tanned hand.

"My name is Grosvenor, Tom Grosvenor. Mrs. Forester is my aunt. She sent me down to look after you while she stops to say goodbye to some friends."

Marjorie accepted the hand, smiled her appreciation of his aunt's thoughtfulness.

"I say, you know," he was looking at her with frank admiration, "I wouldn't have recognized you from the name. Aunt Cora said Mrs. Reed Hollister. I've met your husband in Chicago. I didn't know he had such a—such a," he flushed and stammered and finished bravely, "such a kid for a wife."

She found it impossible not to laugh.

"I'm really not nearly as young as I look," she said demurely. "I feel very, very old in experience."

He looked thoughtful.

"It must be rather an ordeal being the wife of such a prominent man, the social end of it and all that."

She shook her head smilingly.

"Really, I don't know about that. I've been to my first formal dinner party tonight."

He looked rather shocked at the confession, but was too well bred to ask questions.

"You don't care for society perhaps?"

She recalled those same words spoken by Reed Hollister the first time she had ever seen him. It was an unpleasant thought.

"Not particularly. I'd rather

play tennis and swim and ride horseback."

His good-looking tanned face glowed.

"So would I. I'm terribly keen about those things. I say, do you think we might—Aunt Cora said we would be neighbors—would you ride with me?"

Marjorie was startled at his impetuosity. She didn't know quite what to say, what Mrs. Boice-Nevis would say to such a proposal. So she suggested that they postpone a decision until tomorrow, and that, meanwhile, they wait for Mrs. Forester in the car.

It was while he was piloting her through the lobby that they came face to face with Reed Hollister.

The tall broad-shouldered figure in immaculate dinner clothes, the dark, handsome face, the sense of dominance and power that clung round him like an aura, combined to send that customary shaft of fear through Marjorie's whole being. Her hand, on young Grosvenor's arm, trembled.

Her husband greeted Grosvenor with a nod. For herself he had a courteously formal bow.

As they passed out through the entrance doors, she felt young Grosvenor's eye upon her questioningly.

Was this always to happen, she was wondering. Was she to meet Hollister at every turn. To be constantly reminded of her shameful position as the recipient of his charity.

## FAMOUS WOMEN

**MRS. RADCLIFFE.**

MRS. ANNE RADCLIFFE, who was among the first of the feminine novelists of England to attain great popular recognition and liberal financial recompense by her labors, published her first romance, "The Castles of Athlin and Dunbayne," 137 years ago today. This was followed in 1790 by "The Sicilian Romance," and her third book, "The Romance of the Forest," placed her on the pinnacle of success, and when she wrote her "Mysteries of Udolpho" she was able to command the then amazing sum of \$2500. So greatly did this increase her popularity that she was offered \$4000 for her next work, "The Italian." Our ancestors used to sit up all night reading by candlelight the thrilling tales of Mrs. Radcliffe, but she has few readers now. The authoress died in 1823, aged 58 years.

Flattery corrupts both the receiver and the giver.

**FAMILY WASHING Dry \$1 Wash 10 LBS. FOR . . .**

All flat pieces, table and bed linens, towels, etc., beautifully ironed. Wearing apparel returned dried—ready to be ironed.

**25 Lbs., \$2.00**

**Coming POST-DISPATCH AUGUST Dollar Day**

See Announcements TUESDAY, AUG. 26th

IRRESISTIBLE VALUES IN THE

**POST-DISPATCH The Perfect Market Place**

Lindell 1695 Four Trunk Lines

## HOUSEHOLD SUGGESTIONS

**A Good Buttonhole.**

If the buttonhole is overcast around the edges before working and then worked closely in the usual way, it will never fray or become unsightly.

**Seal the Cork.**

Don't forget to dip the top of the medicine bottle in paraffin before putting it in your valise preparatory to the vacation. Then you will not ruin some pretty frock with the spilled contents of the bottle.

**Brown Stains.**

With so much food tea, our pet pitchers are apt to become a little discolored inside during the summer. Hard water will also cause these dark stains. Let milk stand in it until it sours. When washed the pitcher will look like new.

**A Sewing Comfort.**

One woman who does a great deal of sewing has a padded covered brick to which she pins any sewing that needs to be held taut while her hand is being done. It is placed on the table with the rest of her sewing articles, and I can assure you it looks a lot more comfortable than constant bending over one's knee.

**Every Woman Should Know—**

**T**HAT perspiration stains can be removed by rubbing them with soap and laying the garment where the strong sunlight will reach the spots.

That she can speedily and neatly darn the table linen on the sewing machine. Stitch the linen on embroidery hoops. Remove presser foot from machine, loosen the tension, slip hoops under the needle and, without turning the hoops, sew back and forth until hole is filled. Then turn the hoops and sew across the stitching just put in until the darning is complete.

## Children's Bedtime Story

By THORNTON W. BURGESS

### Reddy Plans a Hot Time for Buster

To bring their feelings into play, Resentful people find a way.

—Old Mother Nature.



Reddy began to spend most of his time spying on Buster.

**R**EDDY FOX lay on the doorstep of his house in the Old Pasture and thought and thought. He had discovered a great, gray, paper castle, the castle of the hottest-tempered people he knew of—the paper wasps. You know, they are called paper wasps because they build their home of a kind of gray paper which they make themselves. Some people call them hornets.

The big, gray castle was in a big blueberry bush. It was in a part of the Old Pasture where Buster Bear had not yet been. Reddy knew all about the builders of that gray paper castle. He knew that, big as was Buster Bear, those wasps would not hesitate a second to use their sharp, hot little lances on him if they were made angry. He knew, too, that they were quick-tempered and easily angered.

"If only I can get Buster Bear over to that bush and then make those wasps angry, they probably will make it so hot for him that he'll get out of the Old Pasture in a hurry and stay out," thought Reddy. "But how am I going to do it?"

So Reddy thought and thought and thought. The first thing to do would be to get Buster over to that bush in which was the great, gray paper castle. "Of course, I could go to Buster and tell him

he probably won't notice that wasp castle at all. I guess I'll have to leave it to chance to make those wasps angry when he gets there. The first thing to do is to get him there."

So for a while longer Reddy Fox lay on his doorstep and thought. Then with a sly grin he got up, yawned, stretched and then trotted off down an old cow path to look for Buster Bear. He had a plan at last. He had a plan to arouse Buster Bear's curiosity and lead him over to that berry bush in which was the great, gray castle of the wasps. He chuckled because he felt sure that that plan would be a success.

(Copyright, 1924.)

**Famous French Recipes**

Strawberries a la Malvina. Strawberries a la Malvina make a delightful summer dessert. Prepare a good vanilla cream and freeze. Put it into a large crystal bowl and heap high with strawberries that have been cleaned and cooled on ice. Nap with the juice of fresh raspberries and serve.

**ADVERTISING.**

**FORITCHING TORTURE**

Use Antiseptic Liquid Zemo

There is one remedy that seldom fails to stop itching torture and relieve skin irritation, and that makes the skin soft, clear and healthy. Any druggist can supply you with Zemo, which generally overcomes skin diseases. Eczema, Itch, Pimples, Rash, Blackheads, in most cases give way to Zemo. Frequently, minor blemishes disappear overnight. Itching usually stops instantly. Zemo is a safe, antiseptic liquid, clean, easy to use and dependable. It costs only 35c; an extra large bottle, \$1.00. It is positively safe for tender, sensitive skins. Zemo Soap, 25c—Zemo Ointment, 50c.

# 52%

## GREATER COVERAGE THROUGH EVENING NEWSPAPERS

**Shown by an Analysis of 21 Cities**

In developing the facts contained in this advertisement the *Evening News* and *Evening Post* were compared with the first morning newspaper in each of the cities:

- St. Louis Post-Dispatch
- New York Journal
- Chicago Daily News
- Philadelphia Bulletin
- Detroit News
- Cleveland Press
- Boston Globe
- San Francisco Chronicle
- Pittsburgh Press
- Los Angeles Herald
- San Antonio Express
- San Diego Union
- San Jose Mercury
- San Francisco Chronicle
- San Jose Mercury
- San Francisco Chronicle
- San Jose Mercury
- San Francisco Chronicle
- San Jose Mercury

The largest **EVENING** newspapers in the first 21 cities of the United States have a combined city circulation of 3,192,980. The first morning newspapers in these same cities have a city circulation of only 2,095,639—or 1,097,341 less than the larger evening newspapers.

This nation-wide comparison shows clearly that **EVENING** newspapers are the first choice of the Great American Public.

Throughout the United States these **EVENING** newspaper readers have created and continue to maintain **COMPACT** circulations in their home cities.

For years there has been this pronounced preference for the **EVENING** newspaper in St. Louis, where the *Post-Dispatch* far outsells the morning newspaper in every section of the city—covering **BOTH** mass and class sections.

Because the vast majority of readers prefer the **Big EVENING** newspaper, it is in the evening that newspapers receive the undivided attention of the entire family—a time when advertising messages register their greatest influence to action.

# POST-DISPATCH

FIRST IN ST. LOUIS



# The Man on the Sandbox

by L. Davis

## STOCKTON.

IS Stockton, Cal., the place to come? A corner? The climate is, the Cards maintain, a hummer. The days are warm, the nights are cool, With little moisture as a rule; They'll knock the Giants for a goal Next summer.

## NEIGHBORLY.

When the Pirates began to menace the Giants who was it came to their rescue? None other than our heroes at the other end of the bridge, sometimes called the Dodgers. That's what we call the community spirit.

Maybe McGraw would do the same for Robby under similar circumstances. Once a pal always a pal.

Mr. Dawes says, "This is a campaign of brass tacks." What has become of the old-fashioned nail with which they used to nail the campaign lies?

Charley rather strongly hints that La Follette is going to try to put a brass tack in the presidential chair.

## SOME KID.

According to some of the pictures of Dawes that are being printed one would think that he was still in the marbles and knickerbocker class.

However, as it is the hat that denotes the vintage of a picture we can always be taken bareheaded and get away with it.

TIN, TIRES AND TUNGSTEN. See where Edison, Ford and Firestone, the combination that

makes the flivver go are on their annual vacation.

## A BITTER PILL.

IT is sweet to golf, but, oh, how bitter, To swing at the pill and then not hit 'er!

"Coolidge Loses Sleep to Hear Dawes Talk." Business of making Cal sit up and take notice.

Calvin is getting dissipated. Next thing he'll be waiting up for the bedtime story.

Tom Gibbons expressed himself as being well pleased with the treatment he received in England. As Tom was guaranteed \$50,000 and received \$12,000 it is quite evident that Tommy isn't a hard guy to please.

## HONK! HONK!

The Browns have been going this season like a flivver with engine trouble. They dash ahead, then all of a sudden they stop and back up and then dash ahead again and repeat. They don't know where they're going, but they'll probably get half way there before the engine dies.

In the meantime the Senators have been hitting on everything they have and are honking for the Yanks to pull over and let 'em pass.

There has been some talk of a revival of the silver dollar or cartwheel of our fathers. Let sleeping dollars lie. Nobody but craps-shooters can use them.

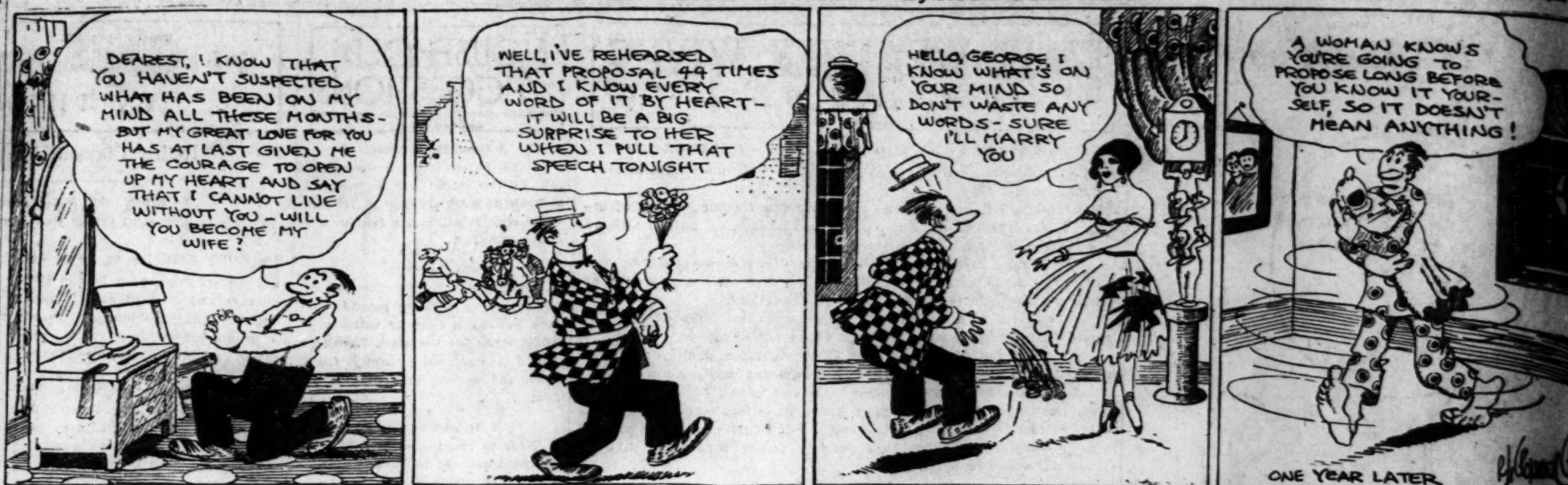
Silver dollars are all right to throw at the birds, but that kind of target practice is no longer popular.

"Lanterns Proposed for City Lighting." What's the matter with candles?

## KRAZY KAT—By HERRIMAN



## BUT IT DOESN'T MEAN ANYTHING—By RUBE GOLDBERG



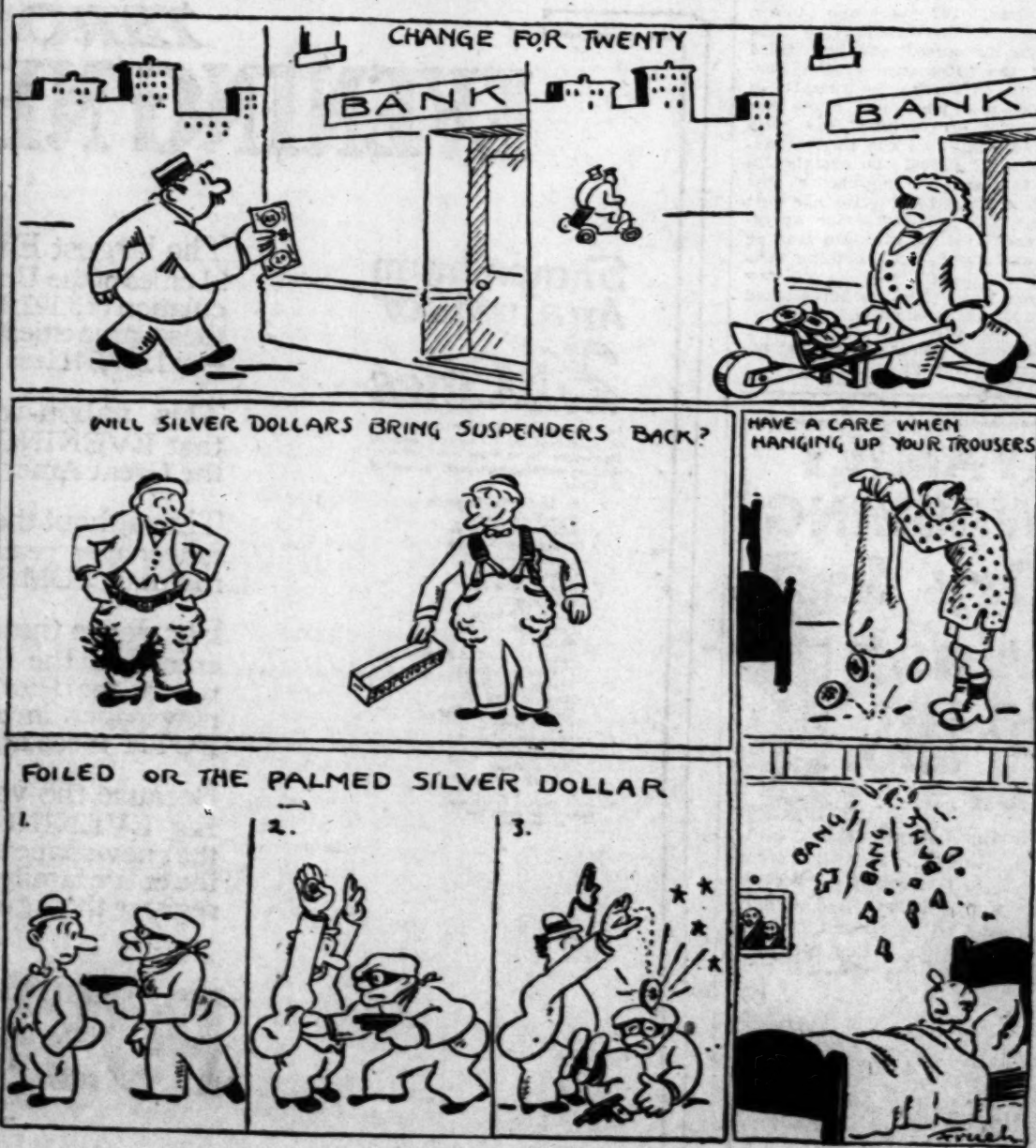
## MUTT AND JEFF—A WARNING FROM AN OLD-TIMER IN THE TENNESSEE MOUNTAINS—By BUD FISHER



## BRINGING UP FATHER—By GEORGE McMANUS



## SILVER DOLLARS AGAIN—By FRUEH



## WHEN A FELLER NEEDS A FRIEND—By BRIGGS





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# ST. LOUIS POST-DISPATCH

## WEEKLY

# RADIO GUIDE

## BROADCASTING PROGRAMS OF PRINCIPAL STATIONS

SECTION of the ST. LOUIS POST-DISPATCH

SATURDAY, AUGUST 23, 1924.

## WHAT TO LOOK FOR IN SELECTING A LOUD SPEAKER

By STUART C. MAHANAY,  
Radio Staff, Post-Dispatch.

THERE are many and various types of loud speakers on the market, and to the uninitiated, the selection of the one best suited to his needs presents quite a problem. The purpose of this article is to not only aid the prospective customer, but to outline a few suggestions and pointers which may help the beginner as well as seasoned fans, to get the utmost in efficiency and satisfaction from their amplifying apparatus as a whole.

It may not be amiss to explain in the beginning that to get good results with any loud speaking horn, it is absolutely essential that at least one and preferably two stages of audio frequency amplification be used to increase the signal intensity after it leaves the detector. True enough, there are some one-tube sets (reflex and otherwise), which operate a loud speaker with sufficient volume to fill a small room in a fairly satisfactory manner, when tuned to local stations, but these are the exceptions which prove the rule, and cannot be duplicated wherever a set is installed. In these cases, it is usually external conditions which are responsible to a large degree, for the unusual reception. Among the favorable external conditions conducive to good radio reception may be mentioned the following: Good geographical location, high aerial designed for the particular range of wave lengths which it is desired to cover, freedom from high-tension wires, street car lines, motors, generators and elevators in the vicinity, not to mention tall steel buildings, trees and hills or mountains.

With this point settled, that for good speaker operation, two stages of audio frequency amplification are required, let us take up the different kinds of "horns" found on the market at the present time, to consider their relative points of merit and demerit with a view to selecting the one best suited to the needs of the reader.

It is quite obvious that one type cannot meet the demands of all radio enthusiasts. One wants volume and plenty of it, even at the expense of quality, while another prefers just the opposite—quality rather than quantity. Still another wants both, or at least a "happy medium," with the possibility of obtaining either volume or quality.

The above statement does not mean to imply that no loud speaker can supply both quality and volume, but the number that do, are rather in the minority, and are usually the result of much testing and experimentation on the part of the owner to obtain the proper balance between detector, amplifier and loud speaker. In other words, an expert can accomplish what a layman cannot. It pays, therefore, to get the best. But, the reader may interject, "how am I to know which is the best?" Our reply will be found in the following paragraphs.

Of all the types of "loud speakers," probably the most common is the improvised phonograph with one or two headphones attached to the tone arm by means of suitable clamps. This serves the purpose in a most excellent manner, provided the receivers are not overloaded, that is, forced by using too much amplification, for they have their physical limitations when used in this manner.

Few indeed are the sets of headphones designed to operate on the output of a two-stage audio frequency amplifier, and the result is a blasting, chattering squawk. Were they heavy enough to stand this load, they would not be useful as head receivers in picking up weak and faint signals. Thus, we have the limitations of the phonograph loud speaker. For fairly loud signals, however, this combination is unequalled for mellowness of tone, and oftentimes velvety quality, but where intense volume is desired, only a power amplifier will fill the bill. Clamps for attaching the receivers to the tone arm may be procured for \$2 or \$3. This method, then, provides the most satisfactory of all the inexpensive substitutes for a loud speaker. It may be mentioned here, that the phonograph sound amplifying chamber is the result of years of experimentation by acoustic engineers to find the perfect amplifying chamber, hence its utility for a purpose similar to that for which it was perfected.

Since the advent of broadcasting, one manufacturer after another has come forward with loud speakers in countless varieties and styles. Almost as many different types and forms have appeared as there are varieties of circuits to which they may be connected. There are wood, papier mache, tin, aluminum, alloy, bakelite, pressed wood pulp, fiber and cardboard, not to mention those made by attaching a receiver to a sea shell. As to styles, there are console models, table talkers with concealed horns, table lamps, floor lamps and what not? All of these various types may be obtained with and without the receiver. Each is claimed to be the "best," and there is no doubt but what each has its good points, but few there are of the listening public who have the time, inclination—and the money—to try each and every different type to ascertain for himself the kind which is really best suited to his needs. Let us begin the process of elimination by analyzing what constitutes an efficient loud speaker.

### Shape of the Horn.

The shape of the horn has been found to have considerable effect upon the tone "output" of a horn because its shape governs the inner air space which is an important factor in the pleasing and faithful reproduction of music and voice. Experiments have proven that a certain taper is best. This taper is one in which the air cone contained therein has a base or diameter of opening which is one-fifth that of the height of the cone or length of the horn. In other words a horn 25 inches long should have a diameter at the bell of five inches, although this proportion does not include the flare of the horn. Incidentally this flare or bell has little effect on the sound and, in most cases, is simply added to give it a finished appearance.

The substance of which the horn is made is also important because any substance which has a tendency to vibrate at its own frequency, will cause a strengthening of tones at or near the same pitch as the natural frequency of the horn and will also tend to rob tones of other pitches of some of their energy. The result is distortion. For this reason metallic horns should never be used except perhaps in cases when the problem of expense is involved, then a dead or

inert metal such as zinc may be used. But the best materials for horn construction are papier mache or wood.

Some papier mache horns, however, have a tendency to split and crack or scale. All horns should be so constructed that the inner surface has a very smooth finish and when wood is employed it should be of a clear grain and properly glued and varnished, so that the inner surface will be clear and remain as smooth as possible.

One loud speaker on the market is made from die-cast wood which has been reduced to its original fiber. Twelve tons of hydraulic pressure and 800 degrees of heat make the walls of the horns denser than seasoned wood and as a result, the product has excellent acoustic properties.

Another type is made of cast aluminum backed with an additional wall designed to prevent any possible chance of vibration. This latter feature is a great improvement.

The least desirable material of all, for the horn of a loud speaker is tin, for it vibrates in sympathy with the sounds passing through it, and adds a very unpleasant "tinny twang."

For the novelty-seeking enthusiast, there has recently appeared on the market a combined table lamp and loud speaker, the horn of the latter forming the stand with the reproducing device contained in the base. This serves the purpose for which it is made.

### Reproducing Units.

The reproducing unit of a loud speaker is of equal, if not greater, importance, than the material of which the horn is constructed. There are two different kinds. Those which require an external battery for excitation and those which do not. The first mentioned are somewhat more expensive, but they give a great deal more volume than any of the others which operate without extra power. Their chief use is in large homes, theaters, halls and for outdoor use where intense volume is required. Practically all of this type have a modulating device for controlling the intensity and quality of sound, to adjust it to the music of speech it is reproducing and to suit the taste of the operator.

Those which operate without external battery are in the majority, and there are many kinds, styles and types. Some are provided with the modulating device referred to above, while others depend on the adjustment of the receiver to provide this control. It is advisable, however, to procure the kind which is adjustable, for it has numerous advantages over those which are unadjustable.

Summing up the foregoing discussion, it will be seen that the most desirable loud speaker is one having a horn made of a composition material or some form of wood, in combination with a reproducing unit which is equipped with a modulating device.

### Efficient Amplification.

Regardless of the efficiency of the loud speaker, unless the input into the latter is what it should be, the amplified sounds which are emitted, cannot be all that is desired. For, after all, it is only a form of amplifier—not a "transformer." It cannot convert scratches, squeaks and squeals into rhythmic melodies pleasing to the ear of even the least exacting. Therefore, the

next points of consideration will be methods of checking up and improving the quality of sound which is fed into the loud speaker.

In a two-stage amplifier an improvement in clarity of tone is often obtained only at the expense of a slight reduction in volume, but the result is more faithful reproduction of signals. One of the most effective schemes to clear reception is to shunt a small fixed condenser across the secondary winding of the second-stage audio frequency transformer. The effect of the condenser is to absorb any unusually powerful impulse and release the energy in a gradual manner. If the capacity of the condenser is too high, the result will be a deadening effect on the signals, while if the capacity is too low, no difference in the signals will be noted. Either a .001 or a .002 mfd. condenser will serve the purpose. For use with "peanut" or dry cell tubes, the smaller capacity is to be preferred.

This can also be applied, with some improvement, to a one-stage amplifier by using a condenser having approximately .0005 mfd. capacity.

To overcome distortion we know of no change which is quite as effective as the addition of a "C" battery of the proper voltage. It not only reduces (and in many cases entirely eliminates) distortion, but it also has the effect of greatly prolonging the life of the plate or "B" batteries. For the latter, if for no other reason, they justify the cost and trouble involved in incorporating them into the amplifier.

When a "C" battery is used it is connected in the grid return lead of the amplifiers, paying particular attention to see that the polarity is correct. For a plate voltage of 45-67½, a three to four volt "C" battery may be used, while for 90 volts a six-volt "C" battery will be found sufficient. For 135 to 150 volts a nine-volt "C" battery will be required. As no current is consumed from the "C" battery, a set of small flashlight cells will serve the purpose nicely.

Another well worth-while suggestion is to try reversing the leads to the loud speaker. This is almost imperative with some types as they are designed for the current to flow through them in one certain direction. When their polarity is reversed, the volume of the output is noticeably lessened, and it has the effect of reducing the strength of the magnets. Only a moment is required to reverse the connections and the effort sometimes pays big dividends. This also applies to headphones. Often signals can be slightly improved and strengthened by this simple changing of polarity.

To prevent "howling" the following pointers are offered: "Ground" the iron cores of the amplifying transformers, and one side of the filaments. Reverse primary connections of the first transformer. Place transformers at right angles to each other. Shorten grid leads, or slightly increase the filament current. Grounding the filaments carries off to the ground all extraneous noises induced into the wires of the receiving set and amplifier, and shunting the "B" battery with a ¼ to 1 mfd. fixed condenser will sometimes improve amplification by clearing up the signals.

While on the subject of audio frequency amplifiers, we shall describe, briefly, the two different types which are

(Continued on Page 8.)



## RADIO PROGRAMS OF PRINCIPAL STATIONS

CKAC—MONTREAL, CANADA.  
(425 METERS)

**TUESDAY, AUG. 26.**  
7 p. m.—Kiddies' stories in French and English.  
7:30 p. m.—Dinner concert from the Mount Royal Hotel.  
8:30 p. m.—England's latest musical selections.  
10:30 p. m.—Dance program by Joseph C. Smith and his Mount Royal Hotel Orchestra.

**THURSDAY, AUG. 28.**  
7 p. m.—Kiddies' stories in French and English.  
7:30 p. m.—Mount Royal Hotel special concert.  
8:30 p. m.—Special entertainment.  
10:30 p. m.—Mount Royal Hotel dance program.

**SATURDAY, AUG. 30.**  
7 p. m.—Kiddies' stories in French and English.  
7:30 p. m.—Rex Battle and his Mount Royal Concert Orchestra, featuring Napoleon Danseur, cellist, and Herbert Spencer, organist.  
8:30 p. m.—La Presse Studio entertainment.  
10:30 p. m.—Mount Royal Hotel Roof Garden Dance Orchestra, featuring Joseph C. Smith, violinist.

KDKA—E. PITTSBURG, PA.  
(326 METERS)

**SUNDAY, AUG. 24.**  
5:30 p. m.—Dinner concert by Gregorio Scalzo's orchestra, playing at the Pittsburgh Athletic Association, Pittsburgh.  
6:45 p. m.—Services of the Smithfield Street Methodist Episcopal Church; Rev. Daniel L. Marsh, minister.  
**MONDAY, AUG. 25.**  
5:30 p. m.—Dinner concert by the KDKA Little Symphony Orchestra, under the direction of Victor Saudek.

6:30 p. m.—The Children's Period, the Radio Godmother.  
6:45 p. m.—"Bringing the World to America," prepared by "Our World."  
8 p. m.—Concert by the KDKA Little Symphony Orchestra, Victor Saudek, conductor, assisted by Premley L. Stevenson, baritone; Mrs. Charles Miller, accompanist.

**TUESDAY, AUG. 26.**  
5:30 p. m.—Organ recital by A. L. Taylor, from the Grand Theater, Pittsburgh, Pa.  
6:30 p. m.—The Children's Period, Uncle Ed.  
7:15 p. m.—Lectures from the University of Pittsburgh studio.  
8 p. m.—Concert arranged by Gilbert Morris, tenor, including male quartet and instrumental selections.  
10 p. m.—Concert.

**WEDNESDAY, AUG. 27.**  
5:30 p. m.—Concert by Gregorio Scalzo's Orchestra, from the Pittsburgh Athletic Association.  
6:30 p. m.—The Children's Period, Richard, the Riddler.  
7:15 p. m.—Literary program, arranged by Marjory Stewart.  
8 p. m.—Concert by Ruby Dunn McCurdy, contralto; Mrs. A. B. Zerby, leader; Earl C. McCurdy, piano; William M. Brennen, tenor; Josephine Cridland, violinist.

**THURSDAY, AUG. 28.**  
5:30 p. m.—Dinner concert by the KDKA Little Symphony Orchestra, Victor Saudek, conductor.  
6:30 p. m.—The Children's Period, Sing a Song of Six Pence.  
8 p. m.—"Advantages of Fall Planting of Shrubs, Trees and Perennials," prepared by the Fruit Growers' Nurseries, Newark, N. J.  
7:15 p. m.—Program arranged by the National Stockman and Farmer.  
8 p. m.—Concert by the KDKA Little Symphony Orchestra, Victor Saudek, conductor, and Mrs. Gertrude Sykes King, piano.  
10 p. m.—Concert.

## FRIDAY, AUG. 29.

5:30 p. m.—Organ recital by Paul Fleeger, from Cameo Motion Picture Theater, Pittsburgh.  
6:30 p. m.—The Children's Period, the Poetry Lady.  
7:30 p. m.—Address prepared by the United States Bureau of Mines.  
8 p. m.—Concert by the trio from the KDKA Little Symphony Orchestra.

## SATURDAY, AUG. 30.

5:30 p. m.—Dinner concert by the Westinghouse band, T. J. Vastine, conductor.  
6:30 p. m.—The Children's Period, the Kiddies' Buddy.  
6:45 p. m.—Last minute helps to teachers of adult and secondary Sunday school classes, C. C. Johnson, author of "How to Teach Adults."  
7 p. m.—Baseball scores; sports review by James J. Long, sport writer of the Pittsburgh Sun.  
7:15 p. m.—Feature.

8 p. m.—Concert by the Westinghouse band, T. J. Vastine, conductor.

KFI—LOS ANGELES, CAL.  
(469 METERS)

**SUNDAY, AUG. 24.**  
6:45 to 8 p. m.—Metropolitan Theater program.  
8 to 9 p. m.—Ambassador Hotel concert orchestra.

9 to 10 p. m.—Variety musical program presented by Ida Mae Walls.  
10 to 11 p. m.—Packard Six orchestra.

## MONDAY, AUG. 25.

5:30 to 6 p. m.—Musical program by Florance Thompson, soprano.  
8 to 9 p. m.—Evening Herald Radio-Lions dance orchestra.  
9 to 10 p. m.—The Alhambra Community Broadcasters.  
10 to 11 p. m.—Ambassador Hotel Coconut Grove orchestra.

## TUESDAY, AUG. 26.

5:30 to 6 p. m.—News, comment, garden hints by H. A. Marks.  
6:45 to 8 p. m.—Aeolian organ recital.

8 to 9 p. m.—Ambassador Hotel Coconut Grove orchestra.  
9 to 10 p. m.—Musical program presented by Betty of the Betty Column of the Examiner.  
10 to 11 p. m.—Popular ballad program.

## WEDNESDAY, AUG. 27.

5:30 to 6 p. m.—Educational talk by Dr. Ralph L. Power, and talk on "The Public's Business," by G. Gordon Whitnall.  
6:45 to 7:30 p. m.—Detective stories and vocal concert.  
7:30 to 8 p. m.—"Memmy" Simmons and Crosby Sisters.  
8 to 9 p. m.—Evening Herald-Frank Carrs orchestra.  
9 to 10 p. m.—Program from Examiner studio.

10 to 11 p. m.—Hollywoodland Community orchestra.  
11 to 12 p. m.—Ambassador Hotel Coconut Grove orchestra.

## THURSDAY, AUG. 28.

5:30 to 6 p. m.—Talk by Annette Foster, pastor of the First Emerson Church.  
6:45 to 8 p. m.—Y. M. C. A. lecture and Bon Ton orchestra.  
8 to 9 p. m.—Ambassador Hotel Coconut Grove orchestra.  
9 to 10 p. m.—California Theater program.  
10 to 11 p. m.—Mrs. Guy Dush arranges concert.

## FRIDAY, AUG. 29.

5:30 to 6 p. m.—Beauty talk by Dr. Jules M. Marton, and address by Judge John L. Fleming.  
6:45 to 8 p. m.—Aeolian organ recital.  
8 to 9 p. m.—Evening Herald-Blue Moon Syncopators.  
9 to 10 p. m.—West Coast Theater program, featuring Florance Thompson, soprano.  
11 to 12 p. m.—Ambassador Hotel Coconut Grove orchestra.

## SATURDAY, AUG. 30.

5:30 to 6 p. m.—Gospel services presented by the Lutheran churches of Los Angeles and vicinity.  
6:45 to 8 p. m.—Hennessy's Paramount Players.

## TODAY'S BROADCASTING EVENTS

**CKAC—Montreal, Canada, (430)**  
7:00 p. m.—Kiddies' stories in French and English.  
7:30 p. m.—Rex Battle and his Mount Royal Hotel Classic Orchestra, featuring Benjamin Scherzer, violin.  
8:30 p. m.—La Presse Studio programme.  
10:30 p. m.—Mount Royal Hotel Roof Garden Orchestra.

**KDKA—E. Pittsburgh, Pa. (326)**  
5:30 p. m.—Dinner concert by the Westinghouse Band, T. J. Vastine, director.  
6:30 p. m.—The Children's Period—Taper Tom.  
6:45 p. m.—Last-minute helps to teachers of adult and secondary class by C. C. Johnson, author of "How to Teach Adults."  
7:00 p. m.—Baseball scores. Sport, 8 p. m.—Concert by the Westinghouse Band under the direction of T. J. Vastine, assisted by John C. McMillan, baritone.

**KFI—Los Angeles, Cal. (469)**  
5:30 to 6 p. m.—Music presented by the Lutheran Churches of Los Angeles and vicinity.  
6:45 to 8:00 p. m.—Hennessy's Paramount Players.  
8:00 to 9:00 p. m.—Tilda Rohr, contralto, arranging concert.  
9 to 10 p. m.—Al Folkerson, whistler and instrumental trio.  
10 to 11 p. m.—Packard Popular Program.  
11 to 12 p. m.—Ambassador Hotel Coconut Grove Orchestra.

**KGO—Oakland, Cal. (312)**  
4 to 5:30 p. m.—Concert orchestra of the Hotel St. Francis, San Francisco, Vinton La Ferrara conducting.  
8 p. m.—Howard Le Moine, baritone; J. G. Walker, tenor; Alwyn Brass Quartet; Ernest Paul Alwyn, euphonium; Thomas Valera and Richard Vosmer, cornet duet; Marjorie S. Stoner, contralto; Thomas Valera, cornet solo.  
Part II of program by the MoAdam Family, Stockton, Cal.  
10 p. m. to 1 a. m.—Henry Halstead and his dance orchestra playing in the Garden Room of the Hotel St. Francis, San Francisco.

**KHJ—Los Angeles, Cal. (395)**  
6 to 7:30 p. m.—Art Hickman's Concert Orchestra from the Biltmore Hotel.  
6:45 to 7:30 p. m.—Children's program presenting Prof. Walter Sylvester Hertzog, telling stories of American history; Helene Pirie, screen juvenile; bedtime story by Uncle John.  
8 to 10 p. m.—De Luxe program.  
10 to 11 p. m.—Art Hickman's Dance Orchestra from the Biltmore Hotel.

**KYW—Chicago, Ill. (536)**  
7 to 7:30 p. m.—Dinner concert broadcast from the Congress Ho-

tel; 7 to 7:10 p. m.—Joska DeBabary's Orchestra, Louis XVI room; 7:10 to 7:20, Paul Whitman's "Collegians" under the direction of A. Vincent Gauthier, Pompeian room; 7:20 to 7:30, Joska DeBabary's Orchestra, Louis XVI room; 8 to 8:55, musical program: Among the artists on this evening's program are: Ballard Smith, baritone; Sallie Mankes, accompanist; 9, talk by Vivette Gorman; 9:05, Youth's Companion, including short stories, articles and humorous sketches.

**PWX—Havana, Cuba, (400)**  
Concert at the studio of station PWX, by the orchestra of the music publishing house of Carver & Co., with Cuban music.

**WBZ—Springfield, Mass. (337)**  
3, broadcast of the Springfield Bridgeport baseball game (Eastern League) direct from Springfield League Park; 6, Leo Reisman Hotel Lenox ensemble; 6:30, Charles H. McKinnin and his Paddy Fiddlers; 11 to 12 p. m., Adolphus Hotel Orchestra, Lawrence Morrell, director, playing in Bamboo hall on the roof of Adolphus Hotel.  
**WGY—Schenectady, N. Y. (380)**  
9:30 p. m., dance music by Joseph A. Chickene and his Clover Club Orchestra, Hotel Ten Eyck, Albany, N. Y.

**WHAS—Louisville, Ky. (400)**  
4 to 5 p. m.—Selections by Dick Quinlan's Gold Derby Orchestra of the Walnut Theater. Selections by the Alamo Theater Orchestra, Harry S. Currie, conductor; 7:30 to 9 p. m., one-hour concert by the Bel Canto Mixed Quartet; Miss Beatrice Thompson, soprano; Miss Venus Thompson, contralto; Henry H. Scherff, tenor; C. Marvin Locke, bass, accompanied by J. Clark Martin. Instrumental imitations by Joseph L. House.

**WIP—Philadelphia, Pa. (509)**  
6:05 p. m., dinner music by the Kentucky Serenaders under the direction of Johnny Hamp from the Ambassador Hotel, Atlantic City, N. J.  
Broadcast direct from the WIP control station on the Steel Pier, Atlantic City, N. J.  
8 p. m., concert by Comfort's Philharmonic Orchestra, Roy B. Comfort, conductor. Broadcast direct from the WIP control station on the Steel Pier, Atlantic City, N. J.  
8:45 p. m., "What the Wild Waves Are Saying," picked up by a microphone placed against the breaking waves under the Steel Pier, Atlantic City, N. J.  
8:50 p. m., concert by Vessella Concert Band, Orestes Vessella, conductor. Broadcast direct from the WIP remote control station located on the Steel Pier, Atlantic City, N. J.  
9 p. m., dance music by Bob Leman's Dance Orchestra, broadcast direct from the WIP control station on the Steel Pier, Atlantic City, N. J.  
11:05 p. m., organ recital

**WJZ—Detroit, Mich. (517)**  
6 p. m.—Baseball scores.  
7:30 p. m.—Concert by Scheneman's Concert Band, broadcast from Belle Isle Park.

**WERB—Chicago, Ill. (370)**  
7:30 to 8:30 p. m., Mylo Rand, piano solo; radio Sunday school lesson, Dr. Herbert W. Virgin; concert selections, Edgewater Beach Oriole Orchestra.  
9:30 to 10:30 p. m., William H. Hunt, man with a thousand stories; Langdon brothers, steel guitar duet; Myrtle Muench, reader; dance selections, Edgewater Beach Oriole Orchestra.  
11:30 to 12:30 a. m., Paul Locker, tenor solo; Langdon brothers, steel guitar duet; dance selections, Edgewater Beach Oriole Orchestra.

**WFAA—Dallas, Tex. (476)**  
3:30 to 4 p. m., musical program by Old Fiddlers; 8:30 to 9:30 p. m., Charles H. McKinnin and his Paddy Fiddlers; 11 to 12 p. m., Adolphus Hotel Orchestra, Lawrence Morrell, director, playing in Bamboo hall on the roof of Adolphus Hotel.

**WGY—Schenectady, N. Y. (380)**  
9:30 p. m., dance music by Joseph A. Chickene and his Clover Club Orchestra, Hotel Ten Eyck, Albany, N. Y.

**WHAS—Louisville, Ky. (400)**  
4 to 5 p. m.—Selections by Dick Quinlan's Gold Derby Orchestra of the Walnut Theater. Selections by the Alamo Theater Orchestra, Harry S. Currie, conductor; 7:30 to 9 p. m., one-hour concert by the Bel Canto Mixed Quartet; Miss Beatrice Thompson, soprano; Miss Venus Thompson, contralto; Henry H. Scherff, tenor; C. Marvin Locke, bass, accompanied by J. Clark Martin. Instrumental imitations by Joseph L. House.

**WIP—Philadelphia, Pa. (509)**  
6:05 p. m., dinner music by the Kentucky Serenaders under the direction of Johnny Hamp from the Ambassador Hotel, Atlantic City, N. J.  
Broadcast direct from the WIP control station on the Steel Pier, Atlantic City, N. J.  
8 p. m., concert by Comfort's Philharmonic Orchestra, Roy B. Comfort, conductor. Broadcast direct from the WIP control station on the Steel Pier, Atlantic City, N. J.  
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8:50 p. m., concert by Vessella Concert Band, Orestes Vessella, conductor. Broadcast direct from the WIP remote control station located on the Steel Pier, Atlantic City, N. J.  
9 p. m., dance music by Bob Leman's Dance Orchestra, broadcast direct from the WIP control station on the Steel Pier, Atlantic City, N. J.  
11:05 p. m., organ recital

**WJZ—Detroit, Mich. (517)**  
6 p. m.—Baseball scores.  
7:30 p. m.—Concert by Scheneman's Concert Band, broadcast from Belle Isle Park.

**KSD—546 Meters.**  
**SATURDAY, 9:00 P. M.**  
Missouri Theater Orchestra, Joseph Littau, conductor, and specialists.  
Broadcast direct from Missouri Theater, Lily Kovacs, pianist; Arthur Neely, tenor.

**SUNDAY—9:00 P. M.**  
Music program broadcast direct from Grand Central Theater.

by Karl Bonawitz, broadcast direct from the Germantown Theater.  
**WJZ—New York, N. Y. (455)**  
7 p. m., Waldorf-Astoria Roof Orchestra, 8 p. m., "Chinese Recipes," Mrs. Ethel Moore Rook.  
10:30 p. m., Hotel Astor Roof Orchestra.

**WLS—Chicago, Ill. (345)**  
7 p. m. to midnight—Market summary; lullaby time; national barn dance, with the old-time fiddlers.

**WMO—Memphis, Tenn. (509)**  
Electrum Orchestra, R. L. Sharpe leader.

**WOAA—Omaha, Neb. (526)**  
6 p. m.—Popular half hour.  
6:30 p. m.—Dinner program by G. R. Radio Orchestra.  
9 p. m.—Program under auspices of Omaha Printing Co.

**WOC—Davenport, Ia. (484)**  
9 p. m.—Orchestra program; the Palmer School Radio Orchestra, Ervin Swindell, conductor; Ralph W. Fuller, baritone soloist.

**WRO—Washington, D. C. (469)**  
6:30 p. m.—Baseball scores.  
7:45 p. m.—Bible talk.  
8:00 p. m.—Song recital by Ruby Potter, soprano; Louis A. Potter at the piano.  
8:15 p. m.—Piano recital by Louis A. Potter.  
8:30 p. m.—To be announced.  
9 p. m.—Concert of Latin-American music by the United States Army Band.

**WSAF—Cincinnati, O. (309)**  
8 p. m.—Chime concert.  
8:15 p. m.—Bass solos, George Clifford Cook; piano solos, Lillian Tyler Plogstedt.  
9 p. m.—Weekly news review, Rutherford H. Cox.  
9:25 p. m.—Soprano solos, Miss Helen Jean Upperman. Midnight—Irvin Gerding's Orchestra.

**WATM—Cleveland, Ohio. (396)**  
8 to 7:30 p. m.—Hotel Statler dinner concert; baseball scores.  
8 p. m. to midnight—Dance program by WTAM Dance Orchestra, assisted by the American Hawaiian Quartet from WGR, Buffalo, N. Y.

**WWJ—Detroit, Mich. (517)**  
6 p. m.—Baseball scores.  
7:30 p. m.—Concert by Scheneman's Concert Band, broadcast from Belle Isle Park.

## TO BE B

Time given is local for broadcasting station in this time. All Mississippi Valley.

8 to 9 p. m.—Instrumental recital.  
9 to 10 p. m.—Variety musical program.  
10 to 11 p. m.—Packard popular program.  
11 to 12 p. m.—Ambassador Hotel Coconut Grove orchestra.

KGO—OAKLAND, CAL.  
(312 METERS)

**SUNDAY, AUG. 24.**  
5:30 p. m.—Concert by KGO Little Symphony Orchestra and soloists, C. Rhodhamel conducting.

**MONDAY, AUG. 25.**  
4 to 5:30 p. m.—Henry Halstead and dance orchestra playing in the Garden Room of the Hotel St. Francis, San Francisco.

6 p. m.—Educational program, musical numbers. Courses in agriculture, Spanish, music, economics literature.

**TUESDAY, AUG. 26.**  
4 to 5:30 p. m.—Concert orchestra, the Hotel St. Francis, San Francisco, Vinton La Ferrara conducting.  
8 p. m.—Program given by Oak Lodge of Elks No. 171; Big Brothers' Band; Mrs. Clinton Dodge, mezzo-soprano; accompanist; address, "The Boy and Man," Fred J. Johnson; Elks Quartet; Lyle Bardo, cornet solo; A. Brown, tenor; burlesque, "The Scientific Dissertation on the Sub of Music," Max Horwinak; Mrs. Gene Blanchard, soprano; Fred Anderson, baritone; address, "America's Menace," Clinton G. Dodge.  
10 p. m. to 1 a. m.—Henry Halstead and his dance orchestra playing in the Garden Room of the Hotel St. Francis, San Francisco.

**WEDNESDAY, AUG. 27.**  
4 to 5:30 p. m.—Concert orchestra, the Hotel St. Francis, San Francisco, Vinton La Ferrara conducting.

**THURSDAY, AUG. 28.**  
4 to 5:30 p. m.—Concert orchestra, the Hotel St. Francis, San Francisco, Vinton La Ferrara conducting.  
8 p. m.—Comedy-drama, "Homing," Dan Toheroh, presented by the Wilson Church, Music between by the Museum Trio.

**FRIDAY, AUG. 29.**  
4 to 5:30 p. m.—Concert orchestra, the Hotel St. Francis, San Francisco, Vinton La Ferrara conducting.

**SATURDAY, AUG. 30.**  
4 to 5:30 p. m.—Concert orchestra, the Hotel St. Francis, San Francisco, Vinton La Ferrara conducting.

8 p. m.—Part One of program by Leven Laurels Quartet, M. Priske Adams, soprano; Gertrude Patterson and Gilbert H. Chick, contralto and tenor duet; Oliver J. man, baritone; Gilbert Hyde Chick, tenor; Mabel Priske Adams and Bert Hyde Chick, soprano and duet.  
Part Two—Mid-Pacific Quartet; actor sketch, "The Love of Lydia Warren Lister; Augusta J. den, soprano; travel talk, J. Barnes, "Rangoon, Calcutta, Mt. Everest."

KHJ—LOS ANGELES, CAL.  
(395 METERS)

**SUNDAY, AUG. 24.**  
6:30 to 7 p. m.—Art Hickman's Concert Orchestra, Biltmore Hotel, under direction of Edward Fitzpatrick.  
7 to 7:30 p. m.—Organ recital from First Methodist Episcopal Church, Arthur Blakeley, organist.  
8 to 10 p. m.—Program presented through the courtesy of the Globe Cream Co., arranged by A. K. E. land.

**TUESDAY, AUG. 26.**  
6 to 6:30 p. m.—Art Hickman's Concert Orchestra, Biltmore Hotel, under direction of Edward Fitzpatrick.  
6:30 to 7:30 p. m.—Children's program presenting Prof. Walter Sylvester Hertzog, telling stories of American history. The weekly visit of Sandman and Queen Titania. Time story by Uncle John.  
8 to 10 p. m.—Program arranged through the courtesy of J. H. Johnson.  
10 to 11 p. m.—Art Hickman's Concert Orchestra, Biltmore Hotel, Earl J. nett, director.

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6 to 6:30 p. m.—Art Hickman's Concert Orchestra, Biltmore Hotel, under direction of Edward Fitzpatrick.  
6:30 to 7:30 p. m.—Children's program presenting Prof. Walter Sylvester Hertzog, telling stories of American history.



## STATIONS

## TO BE BROADCAST THIS COMING WEEK

Time given is local for each station. When it is 6 p. m. in St. Louis it is 8 p. m. Daylight Saving time, and 4 p. m. Pacific Time. No broadcasting station in this Guide is located in Mountain Time territory. Detroit, Buffalo, Cleveland and Pittsburg use Daylight Saving time. All Mississippi Valley stations and Atlanta, Ga., have Central Standard Time.

### KGO—OAKLAND, CAL. (312 METERS)

SUNDAY, AUG. 24.

6:30 p. m.—Concert by KGO Little Symphony Orchestra and soloists, Carl Kheschel conducting.

MONDAY, AUG. 25.

4:30 to 5:30 p. m.—Henry Halstead and his dance orchestra playing in the Garden Room of the Hotel St. Francis, San Francisco.

5:30 p. m.—Educational program, with musical numbers. Courses in agriculture, Spanish, music, economics and literature.

TUESDAY, AUG. 26.

4:30 to 5:30 p. m.—Concert orchestra of the Hotel St. Francis, San Francisco, Violin La Ferrara conducting.

5:30 p. m.—Program given by Oakland Lodge of Elks No. 171; Big Brother-hood Boys' Band; Mrs. Clinton G. Dodge, mezzo-soprano; accordion trio; address, "The Boy and the Man," Fred J. Johnson; Elks' Male Quartet; Lyle Bardo, cornet solo; E. A. Brown, tenor; burlesque, "Deeply Scientific Dissertation on the Subject of Music," Max Horwinski; Mrs. Eugene Blanchard, soprano; Fred N. Anderson, baritone; address, "America's Menace," Clinton G. Dodge.

10:30 to 11 p. m.—Henry Halstead and his dance orchestra playing in the Garden Room of the Hotel St. Francis, San Francisco.

WEDNESDAY, AUG. 27.

4:30 to 5:30 p. m.—Concert orchestra of the Hotel St. Francis, San Francisco, Violin La Ferrara conducting.

5:30 p. m.—Comedy-drama, "Homing," by Dan Tobberoh, presented by the KGO Players, under the direction of Wilda Wilson Church. Music between acts by the Musaeus Trio.

THURSDAY, AUG. 28.

4:30 to 5:30 p. m.—Concert orchestra of the Hotel St. Francis, San Francisco, Violin La Ferrara conducting.

5:30 p. m.—Part one of program given by Leven Laurels Quartet. Mabel Friese Adams, soprano; Gertrude Patterson and Gilbert H. Chick, contralto and tenor duet; Oliver Hinnman, baritone; Gilbert Hyde Chick, tenor; Mabel Friese Adams and Gilbert Hyde Chick, soprano and tenor duet.

Part Two—Mid-Pacific Quartet; character sketch, "The Love of Loretta," Lella Warren Lister; Augusta Hayden, soprano; travel talk, J. E. Barnes, "Bangkok, Calcutta, Mt. Everest."

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10:30 p. m.—Henry Halstead and his dance orchestra playing in the Garden Room of the Hotel St. Francis, San Francisco.

SUNDAY, AUG. 24.

4:30 to 5:30 p. m.—Art Hickman's Concert Orchestra, Biltmore Hotel, under the direction of Edward Fitzpatrick.

5:30 p. m.—Organ recital from the First Methodist Episcopal Church; Arthur Blakeley, organist.

8:30 to 10 p. m.—Program presented through the courtesy of the Globe Ice Cream Co., arranged by A. K. Berkland.

TUESDAY, AUG. 26.

4:30 to 5:30 p. m.—Art Hickman's Concert Orchestra, Biltmore Hotel, under the direction of Edward Fitzpatrick.

5:30 to 7:30 p. m.—Children's program, presenting Prof. Walter Sylvester Hertzog telling stories of American history. Bedtime story by Uncle John.

7:30 to 10 p. m.—Program arranged through the courtesy of J. Howard Johnson.

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5:30 to 7:30 p. m.—Children's program, presenting Prof. Walter Sylvester Hertzog telling stories of American history. Bedtime story by Uncle John.

7:30 to 10 p. m.—Program arranged through the courtesy of J. Howard Johnson.

history; Dick Winslow, screen juvenile. Bedtime story by Uncle John.

8:30 to 9:30 p. m.—Program presented through the courtesy of the Platt Music Co., arranged by Edwin Lester of the Platt Music Co.

9:30 to 10 p. m.—Program presenting Dr. Mars Baumgart, lecturer. The Philippine String Orchestra playing through the courtesy of the Blue Bird Cafeteria.

10:30 to 11 p. m.—Art Hickman's dance orchestra, Biltmore Hotel; Earl Burt-nett, director.

TUESDAY, AUG. 26.

4:30 to 5:30 p. m.—Art Hickman's Concert Orchestra, Biltmore Hotel; Earl Burt-nett, director.

5:30 to 7:30 p. m.—Children's program, presenting Prof. Walter Sylvester Hertzog telling stories of American history. The weekly visit of Dickie Brandon, screen juvenile. Pupils of Carter Weaver of the Earl Wallace School of Theatrical Dancing. Bedtime story by Uncle John.

7:30 to 10 p. m.—Program presented through the courtesy of the National Automobile Insurance Co., arranged by "Uncle Remus." Gladys Blackwell Pickering, soprano. The Pickford-Fairbanks Quartet. Mrs. Milton Jones in dialect stories. Sol Hoopi and his Novelty Three.

10:30 to 11 p. m.—Art Hickman's dance orchestra, Biltmore Hotel; Earl Burt-nett, director.

WEDNESDAY, AUG. 27.

4:30 to 5:30 p. m.—Art Hickman's Concert Orchestra, Biltmore Hotel, under the direction of Edward Fitzpatrick.

5:30 to 7:30 p. m.—Children's program, presenting Prof. Walter Sylvester Hertzog telling stories of American history. The weekly visit of Richard Headrick, screen juvenile. Bedtime story by Uncle John.

7:30 to 10 p. m.—Program presented through the courtesy of the Golden State Electric Co., arranged by Mr. Sedwell.

10:30 to 11 p. m.—Art Hickman's dance orchestra, Biltmore Hotel; Earl Burt-nett, director.

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7:30 to 10 p. m.—Program presented through the courtesy of the Golden State Electric Co., arranged by Mr. Sedwell.

10:30 to 11 p. m.—Art Hickman's dance orchestra, Biltmore Hotel; Earl Burt-nett, director.

WEDNESDAY, AUG. 27.

4:30 to 5:30 p. m.—Art Hickman's Concert Orchestra, Biltmore Hotel, under the direction of Edward Fitzpatrick.

5:30 to 7:30 p. m.—Children's program, presenting Prof. Walter Sylvester Hertzog telling stories of American history. The weekly visit of Richard Headrick, screen juvenile. Bedtime story by Uncle John.

7:30 to 10 p. m.—Program presented through the courtesy of the Golden State Electric Co., arranged by Mr. Sedwell.

10:30 to 11 p. m.—Art Hickman's dance orchestra, Biltmore Hotel; Earl Burt-nett, director.

THURSDAY, AUG. 28.

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10:30 to 11 p. m.—Art Hickman's dance orchestra, Biltmore Hotel; Earl Burt-nett, director.

FRIDAY, AUG. 29.

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5:30 to 7:30 p. m.—Children's program, presenting Prof. Walter Sylvester Hertzog telling stories of American history. The weekly visit of Richard Headrick, screen juvenile. Bedtime story by Uncle John.

7:30 to 10 p. m.—Program presented through the courtesy of the Golden State Electric Co., arranged by Mr. Sedwell.

10:30 to 11 p. m.—Art Hickman's dance orchestra, Biltmore Hotel; Earl Burt-nett, director.

given by Mr. Leon Dickinson of the Chicago Motor Club.

8:15 p. m.—Talk from "Hygeia," by Dr. John M. Dodson of the American Medical Society.

8:45 p. m. to 12:30 a. m.—Midnight revue.

THURSDAY, AUG. 28.

7:30 to 7:45 p. m.—Dinner concert broadcast from the Congress Hotel.

7:45 to 8:15 p. m.—Joska de Babary's orchestra; Louis XVI room.

8:15 to 8:45 p. m.—Paul Whiteman's "Collegians," under the direction of A. Vincent Gauthier; Pompeian room.

8:45 to 9:15 p. m.—Joska de Babary's orchestra; Louis XVI room.

9:15 to 9:45 p. m.—Twenty Minutes of Good Reading, by Rev. C. J. Fernin, S. J., head of Department of English, Loyola University, Chicago.

9:45 to 10:15 p. m.—Musical program: An evening of Lithuanian music, courtesy of Peter Sarpulius; John Romanauks, tenor; C. Chepaitis, tenor; S. Stanley, soprano; M. Raukaskas, soprano; K. Sabonis, baritone; S. Cherry, contralto; P. Stogis, bass; Sophia Saupe, soprano; Ludzka Sabonis, violinist.

10:15 to 10:45 p. m.—"Safety First" talk by Z. C. Elkin of the Chicago Motor Club.

10:45 to 11:15 p. m.—"At Home" program.

FRIDAY, AUG. 29.

7:30 to 8 p. m.—Program broadcast from KTVW's studio in the offices of the Duncan Sisters Music Publishing Co.

8:00 to 8:45 p. m.—Program furnished by the American Farm Bureau Federation; "Club Work at the National Dairy Show," by W. E. Skinner, general manager; "The Farmer and Rail Transportation," by L. J. Quasey, director, Department of Transportation, Illinois Agricultural Association.

8:45 to 9:15 p. m.—Midnight revue.

SATURDAY, AUG. 30.

7:30 to 8 p. m.—Dinner concert broadcast from the Congress Hotel.

8:00 to 8:15 p. m.—Joska de Babary's orchestra; Louis XVI room.

8:15 to 8:45 p. m.—Paul Whiteman's "Collegians," under the direction of A. Vincent Gauthier; Pompeian room.

8:45 to 9:15 p. m.—Joska de Babary's orchestra; Louis XVI room.

9:15 to 9:45 p. m.—Music program: Through the courtesy of the Evanston Versatile Concert Co., Arthur O. C. Holder, tenor; Theodore Dixon, baritone; Lejeune Jones, soprano and pianist; Durham Richardson, xylophone.

9:45 to 10:15 p. m.—Talk by Vivette Gorman of the People's Gas Co.

10:15 to 10:45 p. m.—Youth's Companion, including short stories, articles and humorous sketches.

SUNDAY, AUG. 24.

7:30 to 8 p. m.—Dinner concert broadcast from the Congress Hotel.

8:00 to 8:15 p. m.—Joska de Babary's orchestra; Louis XVI room.

8:15 to 8:45 p. m.—Paul Whiteman's "Collegians," under the direction of A. Vincent Gauthier; Pompeian room.

8:45 to 9:15 p. m.—Joska de Babary's orchestra; Louis XVI room.

9:15 to 9:45 p. m.—Music program: Through the courtesy of the Evanston Versatile Concert Co., Arthur O. C. Holder, tenor; Theodore Dixon, baritone; Lejeune Jones, soprano and pianist; Durham Richardson, xylophone.

9:45 to 10:15 p. m.—Talk by Vivette Gorman of the People's Gas Co.

10:15 to 10:45 p. m.—Youth's Companion, including short stories, articles and humorous sketches.

MONDAY, AUG. 25.

7:30 to 8 p. m.—Dinner concert broadcast from the Congress Hotel.

8:00 to 8:15 p. m.—Joska de Babary's orchestra; Louis XVI room.

8:15 to 8:45 p. m.—Paul Whiteman's "Collegians," under the direction of A. Vincent Gauthier; Pompeian room.

8:45 to 9:15 p. m.—Joska de Babary's orchestra; Louis XVI room.

9:15 to 9:45 p. m.—Music program: Through the courtesy of the Evanston Versatile Concert Co., Arthur O. C. Holder, tenor; Theodore Dixon, baritone; Lejeune Jones, soprano and pianist; Durham Richardson, xylophone.

9:45 to 10:15 p. m.—Talk by Vivette Gorman of the People's Gas Co.

10:15 to 10:45 p. m.—Youth's Companion, including short stories, articles and humorous sketches.

TUESDAY, AUG. 26.

7:30 to 8 p. m.—Dinner concert broadcast from the Congress Hotel.

8:00 to 8:15 p. m.—Joska de Babary's orchestra; Louis XVI room.

8:15 to 8:45 p. m.—Paul Whiteman's "Collegians," under the direction of A. Vincent Gauthier; Pompeian room.

8:45 to 9:15 p. m.—Joska de Babary's orchestra; Louis XVI room.

9:15 to 9:45 p. m.—Music program: Through the courtesy of the Evanston Versatile Concert Co., Arthur O. C. Holder, tenor; Theodore Dixon, baritone; Lejeune Jones, soprano and pianist; Durham Richardson, xylophone.

9:45 to 10:15 p. m.—Talk by Vivette Gorman of the People's Gas Co.

10:15 to 10:45 p. m.—Youth's Companion, including short stories, articles and humorous sketches.

WEDNESDAY, AUG. 27.

7:30 to 8 p. m.—Dinner concert broadcast from the Congress Hotel.

8:00 to 8:15 p. m.—Joska de Babary's orchestra; Louis XVI room.

8:15 to 8:45 p. m.—Paul Whiteman's "Collegians," under the direction of A. Vincent Gauthier; Pompeian room.

8:45 to 9:15 p. m.—Joska de Babary's orchestra; Louis XVI room.

9:15 to 9:45 p. m.—Music program: Through the courtesy of the Evanston Versatile Concert Co., Arthur O. C. Holder, tenor; Theodore Dixon, baritone; Lejeune Jones, soprano and pianist; Durham Richardson, xylophone.

9:45 to 10:15 p. m.—Talk by Vivette Gorman of the People's Gas Co.

10:15 to 10:45 p. m.—Youth's Companion, including short stories, articles and humorous sketches.

7:40 p. m.—Concert by Lenox E. Bigelow, baritone; Mildred I. Chapin, accompanist, Hotel Kimball studio, Springfield, Mass.

9 p. m.—Minerva Trio, violin, piano and cello, from the Hotel Brunswick studio, Boston.

9:30 p. m.—To be announced.

11:30 p. m.—Leo Reisman and his Hotel Brunswick orchestra, and songs by Bill Coby and Jack Armstrong, Hotel Brunswick studio, Boston.

THURSDAY, AUG. 28.

7:10 to 7:20 p. m.—Letter from the New England Homestead, "At the Theater," with A. L. S. Wood, dramatic editor of the Springfield Union, from the Hotel Kimball studio, Springfield.

7:20 to 7:30 p. m.—Bedtime story for the children, from the Hotel Kimball studio, Springfield.

9 p. m.—To be announced.

9:30 p. m.—To be announced.

FRIDAY, AUG. 29.

7:30 p. m.—Bedtime story for the children, from

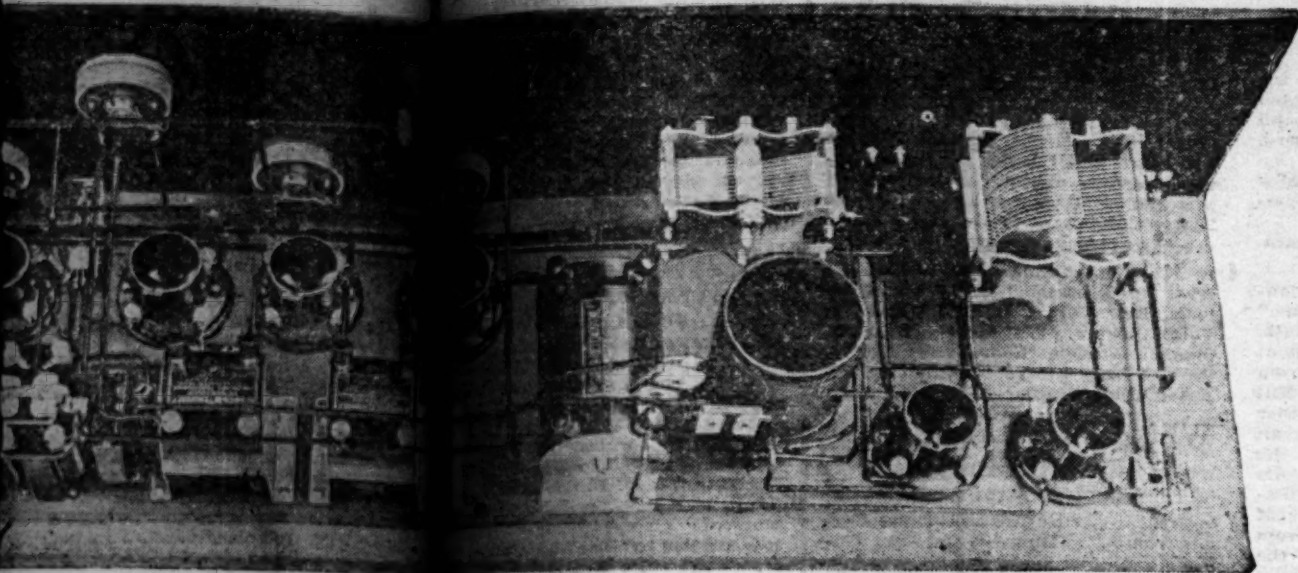






# HETERODYNE RECEIVER

Fourth of a Series of Articles Reviewing the Super-Heterodyne Circuit in Its Various Forms



1.—Picture of Set Showing Location of Both Panel and Baseboard.

Now for those who want to see the specifications. On a bakelite baseboard, 4 inches long, drill the end, as shown in Figure 1. One of these holes and wind on one of these coils, wind on eight turns of No. 18 D.C.C. The second turns of the same size wire. This is in the same direction as the bottom of the first coil should start about half an inch from the third, which is the pick-up coil. The heterodyning energy from the first detector circuit. This consists of eight turns of wire wound in the same direction as the first coil and is separated from it by about 1/2 inch.

It is advisable to use small pieces of wire in such a manner that a coating of collodion will be found in place. The coupler should be

In this circuit. Both coils, the primary and secondary, consist of 6000 turns of No. 38 double cotton-covered copper wire wound on a fiber core, 1/4 of an inch in diameter and 1/2 an inch thick, between two fiber disks, 2 1/2 inches in diameter and 1/4 of an inch thick. Figure 6 shows the constructional details of the windings. The primary and secondary are mounted on a threaded brass rod, 1/4 x 1/2 inches, passed through the fiber cores. The coils are separated by approximately 1 inch. The windings are then encased in a bakelite tube, 2 1/2 inches in diameter and 4 inches long. Suitable holes are drilled at opposite ends for four binding posts, to which the ends of the coils are connected. The loose coupling between the coils reduces the static interference and provides greater selectivity.

## THE I. F. AMPLIFYING UNIT.

Research and practice have decided within certain limits the best frequency at which radio can be handled for purposes of amplification. This has been placed in the neighborhood of 30 kilocycles or 10,000 meters. The higher frequencies at which broadcasting is accomplished are too hard to handle, so the higher

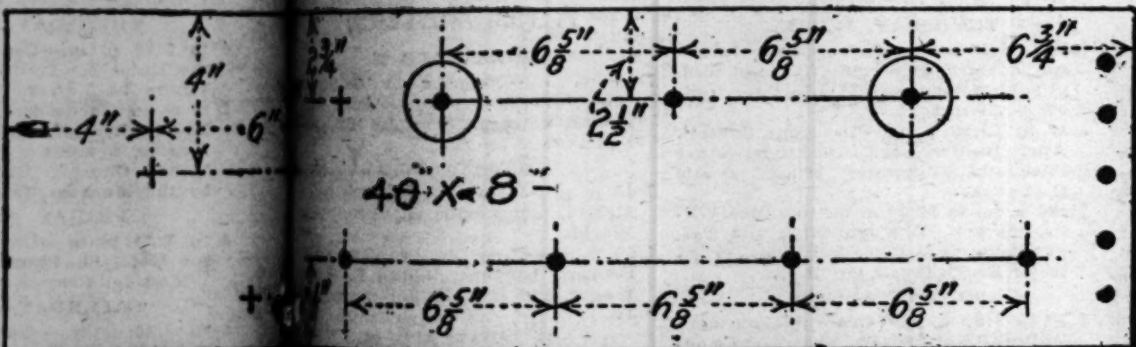


Fig. 2.—The Panel Layout Showing Rheostats, Potentiometer, Meters, Jacks and Binding Posts.

a manner that the terminals are kept as short as possible. The placement of this coil is directly behind the 25-plate variable condenser.

## THE FILTER

The requirements of the filter are simple, but in that simplicity, which calls for many super-heterodyne circuits, the filter is a very important part. The filter's only requirement is to block out everything but the frequency of the intermediate frequency. The form of two coils having identical characteristics which may be tuned to make up for any variation created by the actual winding of either coil. The filter is a laboratory to pass the frequency of the intermediate frequency's best range. The following gives the specifications for the filter.

The same materials are used in the 10,000-meter intermediate frequency transformers as in the filter. The coils, however, are different, in that the primary consists of 3000 turns of wire and the secondary of 6000 turns. They are brought up as close together as possible, having only the fiber disks between them acting as a core. These two coils can be encased in a piece of bakelite tubing of the same diameter used in the filter but only 2 inches long. This casing will protect the windings from damage, moisture and dust.

For the theory of the operation of the intermediate amplifying unit, we refer you to the first article of this series.

## TUBES.

The vacuum tubes for the super-heterodyne are one of the important considerations in its construction. It is practically impossible to purchase eight tubes whose characteristics are similar in all respects. Matched tubes would be the best to use, but every reader has not the facilities or money to purchase a bushel of

tubes in order to match up eight. The most reliable method of matching tubes is by means of a tube testing set. However, if one cannot secure a tube testing set, it will be necessary to switch the tubes around until the best combination is obtained. The oscillator tube can be tested for oscillation by inserting it in any standard regenerative receiver and operating the receiver over all the wave lengths. Note the ease with which the tube breaks into oscillation at the various wave lengths and incidentally various "B" battery

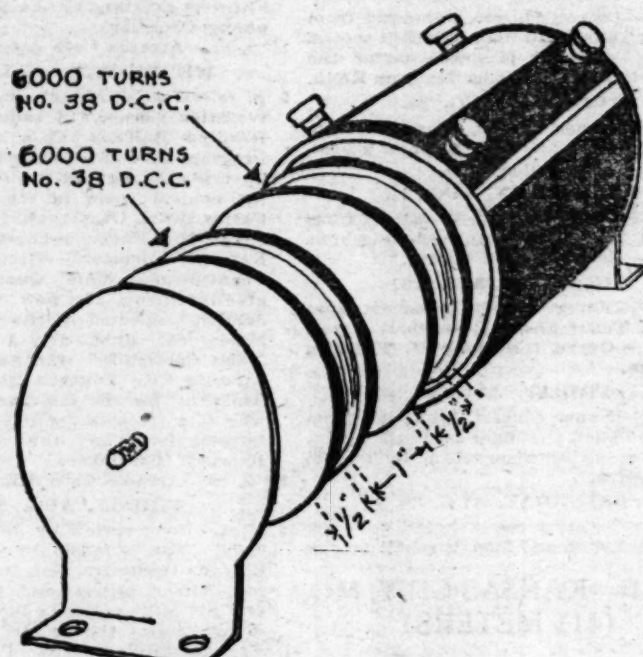


Fig. 6.—The Filter System.

potentials. The tube that oscillates the easiest on all wave lengths and the voltage that is to be used on the super should be selected for the oscillator tube in the super. The second detector tube should be a better rectifier than the first detector tube and it also should be a tube with very low internal capacity. Tubes for the audio frequency amplifier are not critical, but should produce good volume consistent with good quality. Use only standard make tubes in the audio side of the super, because others may present slight distortion. Tubes for the I. F. A. unit, the super-heterodyne circuit should have a very low internal capacity, a very good amplification factor, and, above all, the mutual conductance of the three tubes should be nearly alike. Switching tubes in the intermediate section is sometimes successful, but as a rule it is necessary to have more than three tubes to accomplish the purpose. If the intermediate frequency transformers are matched, I would advise the reader to purchase three matched tubes in order to obtain maximum efficiency out of the intermediate circuit.

## STARTING UP AND TUNING.

In operating the Resas super-heterodyne no difficulty will be experienced in receiving any desired station if the following instructions are rigidly adhered to:

A loop aerial of established merit should be connected across the two binding posts provided. The two connecting leads should be kept as short as possible and should consist of two separate wires, as the capacity between double wires is a disadvantage. Eight UV-201-A tubes or C-301-A tubes should be inserted in the sockets. To get the maximum efficiency from this set, it is necessary to choose carefully the oscillator tube, which is placed in the socket, second from the left. Upon the quality of the oscillator

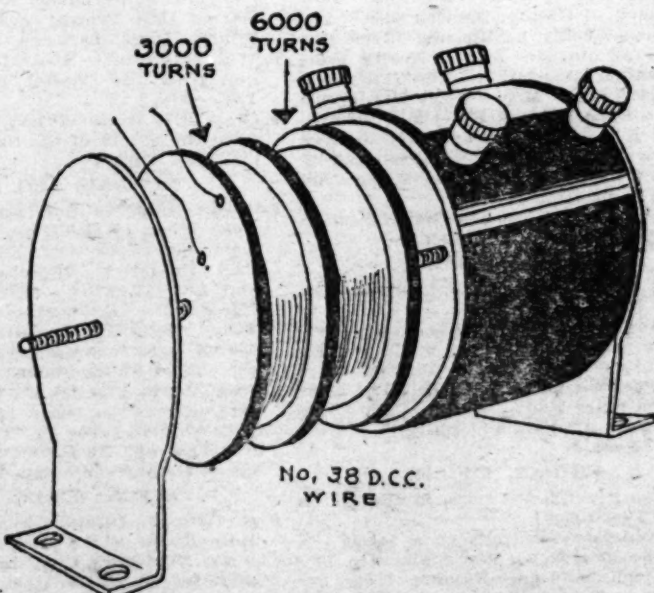


Fig. 7.—The Intermediate Frequency Transformer.

tube hangs, to a great extent, the successful operation: 90 volts of "B" battery are connected to the binding post provided.

As the eight tubes require considerable current, these batteries should be fresh and not partly dead. Where good hard tubes are used, it is found advantageous to connect 135 volts of "B" battery to the binding post marked 90 volts positive. The rheostat marked heterodyne is advanced to a position equivalent to the hour hand at 2 o'clock. The other two detector rheostats are moved to a position about approximately 3 o'clock. The master rheostat is turned to about 3 o'clock, and the reading of the ammeter will show if the tubes are receiving proper current. The master rheostat is regulated for best position. This position will generally be found where the ammeter reads between 1 1/2 and 2 amperes. The voltmeter should read 6 volts. When the battery is fully charged it reads slightly over 6 volts. The set will not function properly when the meter reads 5 1/2 volts or lower.

The potentiometer is moved toward the negative side about

(Continued on Page 8.)

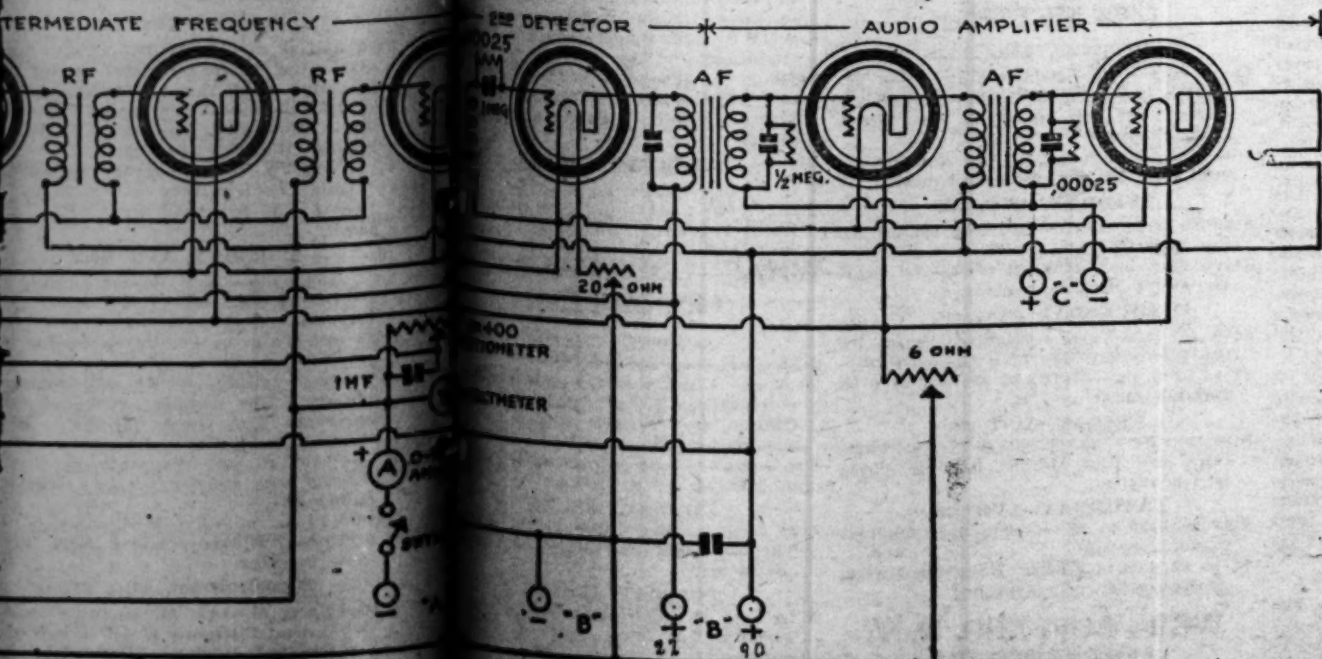


Diagram of all Parts of Resas 8-Tube Super-Heterodyne Amplification. (Note: The potentiometer is moved toward the negative side about 1/2 inch.)



## RADIO PROGRAMS FOR THE WEEK—Continued

Klawonn; marimba solos, Mr. George Beem; reader, Mrs. Blanche Reynolds Kessler; piano solo, Mr. Richard Hise.

WCX—DETROIT, MICH.  
(517 METERS)

SUNDAY, AUG. 24.

10:30 a. m.—Services of the Central Methodist Episcopal Church, broadcast from the church. The Hudson-Quartets.

MONDAY, AUG. 25.

6 p. m.—Dinner concert, broadcast from Hotel Tuller, and final baseball scores. 7 p. m.—Musical program, under the direction of Mrs. Claire Madison Keith.

TUESDAY, AUG. 26.

6 p. m.—Dinner concert, broadcast from Hotel Tuller, and final baseball scores. 10 p. m.—Red Apple Club.

WEDNESDAY, AUG. 27.

6 p. m.—Dinner concert, broadcast from Hotel Tuller, and final baseball scores. 7 p. m.—Bertha Bright Knapp.

THURSDAY, AUG. 28.

6 p. m.—Dinner concert, broadcast from Hotel Tuller, and final baseball scores. 7 p. m.—Organ recital by H. Matthias Turton.

FRIDAY, AUG. 29.

6 p. m.—Dinner concert, broadcast from Hotel Tuller, and final baseball scores. 8:30 p. m.—Musical program, by Tuxedo Orchestra.

SATURDAY, AUG. 30.

6 p. m.—Dinner concert, broadcast from Hotel Tuller, and final baseball scores.

WDAF—KANSAS CITY, MO.  
(411 METERS)

SUNDAY, AUG. 24.

4 to 5 p. m.—Program broadcast from the Newman Theater.

MONDAY, AUG. 25.

5 to 5:30 p. m.—Weekly Boy Scout program, presented by Kansas City Council of Boy Scouts.

6 to 7 p. m.—Piano tuning-in number on the Duo-Art.

Address—Personal message from Roger W. Babson, statistical expert and "doctor of business." Address—Clerin Zumwalt, author and lecturer; fourteenth of a series of educational lectures, "The Tell-Me-a-Story Lady."

Music—Carl Nordberg's Plantation Players, Hotel Muehlebach.

8 to 9:30 p. m.—Program by the Star's radio orchestra and the WDAF Minstrels.

11:45 p. m. to 1 a. m.—The Riley-Ehrhart Winnwood Beach orchestra.

TUESDAY, AUG. 26.

5 to 5:30 p. m.—Weekly child talent program.

6 to 7 p. m.—Piano tuning-in number on the Duo-Art.

Address—Fourteenth of a series of piano lessons by Miss Maudellen Littlefield. Address—The Tell-Me-a-Story Lady. Music—Carl Nordberg's Plantation Players, Hotel Muehlebach.

WEDNESDAY, AUG. 27.

6 to 7 p. m.—Piano tuning-in number on the Duo-Art.

Address—Speaker from the Meat Council of Greater Kansas City. Address—Weekly health talk given under the auspices of the Health Conservation Association. The Tell-Me-a-Story Lady. Music—Carl Nordberg's Plantation Players, Hotel Muehlebach.

8 to 9 p. m.—Program arranged by Miss Mary E. de Bernardi and presented by members of the Con Brio Music Club and their friends.

11:45 p. m. to 1 a. m.—The Plantation Player, Hotel Muehlebach.

THURSDAY, AUG. 28.

6 to 7 p. m.—Piano tuning-in number on the Duo-Art.

Address—Edgar Allan Linton, seventh of a series of talks on world travels. Reading—Miss Cecile Burton from popular poems and essays. The Tell-Me-a-Story Lady. Music—Carl Nordberg's Plantation Players, Hotel Muehlebach.

FRIDAY, AUG. 29.

6 to 7 p. m.—Piano tuning-in number on the Duo-Art.

Address—Fifteenth of a series of piano lessons by Miss Maudellen Littlefield. Address—Speaker from the Kansas City Children's Bureau. The Tell-Me-a-Story Lady. Music—Carl Nordberg's Plantation Players, Hotel Muehlebach.

8 to 11 p. m.—Popular program by dance orchestra, minstrels and comedians, in honor of the "Merry Old Chief" of the Nighthawks on his return to WDAF.

11:45 p. m. to 1 a. m.—"The Merry Old Chief" and Charles Dornberger's orchestra, K. C. A. C. roof garden, and the Plantation Players, Hotel Muehlebach.

SATURDAY, AUG. 30.

6 to 7 p. m.—Piano tuning-in number on the Duo-Art.

Address—Tenth of a series of talks by speakers from the editorial staff of the Star. The Tell-Me-a-Story Lady. Music—Carl Nordberg's Plantation Players, Hotel Muehlebach.

WDAR—PHILADELPHIA,  
PA. (395 METERS)

MONDAY, AUG. 25.

8 p. m.—Arcadia Cafe concert orchestra; Prof. Feri Sarkos, director.

8:30 p. m.—Artist recital by John W. Norris, Baritone, and Ruth Lane, soprano. Artist recital by the Hayden Trio, Blomah Goldberg, violin; Joseph Siciliano, cello, and Martha Goldberg, pianist.

9:30 p. m.—Features from the Stanley Theater; overture by the Stanley Symphony Orchestra.

10 p. m.—Arcadia Cafe dance orchestra.

WEDNESDAY, AUG. 27.

8 p. m.—Arnold Abbott and his "Conversation Corner," a radio "colyum." Reading Railway Co.'s travel talk. Program of dance music broadcast at intervals throughout the evening from the control room in the Green Hill Farms Hotel, Overbrook, Pa.; Kentner Green Hill Farms orchestra, Herman Kentner, director. Recital by the Pennsylvania Male Quartet. Radio greetings from the new "Miss Philadelphia," selected at the Academy of Music last night, and a word from "Miss Columbus," who has taken the Atlantic City Pageant title of "Miss America" for the last two years, and who is a favorite for this third year; introductions by the Philadelphia Boosters' Committee.

10 p. m.—Arcadia Cafe dance orchestra.

FRIDAY, AUG. 29.

8 p. m.—Book review by Arnold Abbott. Talk. Dance music by the Benson Chicago Orchestra, Don Bestor, directing. Victor artists, and Charley Fry and his Million Dollar Pier, orchestra, direct from the control room on Young's Million Dollar Pier, Atlantic City, N. J.

9:15 p. m.—"Checkers," a talk by Frank J. Marshall, chess champion of the United States and well-known checker expert. "Capt. John L. Young's Weekly Sportsman's Fishing Forecast," a talk by Capt. John L. Young, the famous expert on fishes, from the studio on the Million Dollar Pier.

10 p. m.—Continuation of the features from the Million Dollar Pier studio. Continuation of the dance program by Benson's Chicago Orchestra, under direction of Dan Bestor, from Young's Million Dollar Pier ballroom.

WEDNESDAY, AUG. 27.

7:30 to 8:30 p. m.—Louis Periman, violinist; Orle Quartet; concert selections, Oriole Orchestra.

8:30 to 10:30 p. m.—Drury Lenington, tenor; Marie Kelly, readings; Langdon Brothers, steel guitar duets; dance selections, Edgewater Beach Oriole Orchestra.

11:30 p. m. to 12:30 a. m.—Paul Locker, tenor; Langdon Brothers, steel guitar duets; dance selections, Edgewater Beach Oriole Orchestra.

THURSDAY, AUG. 28.

7:30 to 8:30 p. m.—Helen Louise Jacobson, pianist; Dan and Nick and Ted, popular songs; concert selections, Oriole Orchestra.

8:30 to 10:30 p. m.—Devereux Jarratt, Anna Brauer, negro spirituals; dance selections, Edgewater Beach Oriole Orchestra.

11:30 p. m. to 12:30 a. m.—Pauline Willis, soprano; Dan and Nick and Ted, popular songs; dance selections, Edgewater Beach Oriole Orchestra.

FRIDAY, AUG. 29.

7:30 to 8:30 p. m.—Grace Wilson, contralto; Frank Papia, accordion; concert selections, Oriole Orchestra.

8:30 to 10:30 p. m.—Fred Agard, tenor; dance selections, Edgewater Beach Oriole Orchestra.

11:30 p. m. to 12:30 a. m.—Sandy Meek, tenor; Nick Lucas, songs with guitar; dance selections, Edgewater Beach Oriole Orchestra.

SATURDAY, AUG. 30.

7:30 to 8:30 p. m.—Henry Johnson, violinist; Sunday school lesson, Dr. Herbert W. Virgin; concert selections, Oriole Orchestra.

8:30 to 10:30 p. m.—Langdon Brothers, steel guitar duets; Marie Kelly, reader; William H. Hunt, Man With a Thousand Stories; dance selections, Edgewater Beach Oriole Orchestra.

11:30 p. m. to 12:30 a. m.—Paul Locker, tenor; Langdon Brothers, steel guitar duets; dance selections, Edgewater Beach Oriole Orchestra.

WFAA—DALLAS, TEX.  
(476 METERS)

MONDAY, AUG. 25.

12:30 to 1 p. m.—Address, Dr. Ellis W. Shuler, Southern Methodist University, department of geology, on "Texas Rock Stories."

8:30 to 9:30 p. m.—J. M. Cox and his sacred song quartet, male and mixed.

TUESDAY, AUG. 26.

8:30 to 9:30 p. m.—Musical recital by the Alka Choral Club.

11 to 12 p. m.—Musical recital by Cecil Dunavant Everett, contralto.

THURSDAY, AUG. 28.

8:30 to 9:30 p. m.—Musical recital by the Wednesday Morning Choral Club.

11 to 12 p. m.—Midnight Melody Men in popular music recital.

FRIDAY, AUG. 29.

8:30 to 9:30 p. m.—Charles Scogin, baritone, and Miss Theima Roberts, pianist, in recital.

SATURDAY, AUG. 30.

8:30 to 9:30 p. m.—Netto Male Quartet in vocal recital.

11 to 12 p. m.—Adolph Hotel Orchestra, Lawrence Morrell directing.

WGR—BUFFALO, N. Y.  
(319 METERS)

SUNDAY, AUG. 24.

8 p. m.—Vesper services, Dr. Don D.

Balmanno, mezzo-soprano; Britt and Finch, harmony singers and song writers; Vincent Lopez and his orchestra from the roof garden of the Hotel Pennsylvania.

FRIDAY, AUG. 29.

6 to 10 p. m.—Dinner music from the Rose Room of the Hotel Waldorf-Astoria; stories for children by Blanche Elizabeth Wade, story teller of the G. R. Kinney company; Ben Gordon, tenor; Bella Hecht, pianist; George Peccoraro and Charles Catanes, Hawaiian guitar players; Marion Schott, jazz pianist; B. Fisher and company's "Astor Coffee" dance orchestra.

SATURDAY, AUG. 30.

6 to 11 p. m.—Dinner music from the Rose Room of the Hotel Waldorf-Astoria, New York City; Eight Russian Volga Singers; Constance Hulsman, pianist; Vincent Lopez and his orchestra from the roof garden of the Hotel Pennsylvania, New York City.

WEBB—CHICAGO, ILL.  
(370 METERS)

SUNDAY, AUG. 24.

7 to 9 p. m.—Artist program: Eulah Corner, contralto; Rudolph Reimers, violinist; concert selections, Edgewater Beach Oriole Orchestra.

TUESDAY, AUG. 26.

7:30 to 8:30 p. m.—Rita McFawn, soprano; Nick Lucas, songs with guitar; concert selections, Oriole Orchestra.

9:30 to 10:30 p. m.—Frances Bart Wallace, soprano; dance selections, Edgewater Beach Oriole Orchestra.

11:30 p. m. to 12:30 a. m.—Harry Davis, baritone; Robert Huntington, pianist; dance selections, Edgewater Beach Oriole Orchestra.

WEDNESDAY, AUG. 27.

7:30 to 8:30 p. m.—Louis Periman, violinist; Orle Quartet; concert selections, Oriole Orchestra.

8:30 to 10:30 p. m.—Drury Lenington, tenor; Marie Kelly, readings; Langdon Brothers, steel guitar duets; dance selections, Edgewater Beach Oriole Orchestra.

11:30 p. m. to 12:30 a. m.—Paul Locker, tenor; Langdon Brothers, steel guitar duets; dance selections, Edgewater Beach Oriole Orchestra.

THURSDAY, AUG. 28.

7:30 to 8:30 p. m.—Helen Louise Jacobson, pianist; Dan and Nick and Ted, popular songs; concert selections, Oriole Orchestra.

8:30 to 10:30 p. m.—Devereux Jarratt, Anna Brauer, negro spirituals; dance selections, Edgewater Beach Oriole Orchestra.

11:30 p. m. to 12:30 a. m.—Pauline Willis, soprano; Dan and Nick and Ted, popular songs; dance selections, Edgewater Beach Oriole Orchestra.

FRIDAY, AUG. 29.

7:30 to 8:30 p. m.—Grace Wilson, contralto; Frank Papia, accordion; concert selections, Oriole Orchestra.

8:30 to 10:30 p. m.—Fred Agard, tenor; dance selections, Edgewater Beach Oriole Orchestra.

11:30 p. m. to 12:30 a. m.—Sandy Meek, tenor; Nick Lucas, songs with guitar; dance selections, Edgewater Beach Oriole Orchestra.

SATURDAY, AUG. 30.

7:30 to 8:30 p. m.—Henry Johnson, violinist; Sunday school lesson, Dr. Herbert W. Virgin; concert selections, Oriole Orchestra.

8:30 to 10:30 p. m.—Langdon Brothers, steel guitar duets; Marie Kelly, reader; William H. Hunt, Man With a Thousand Stories; dance selections, Edgewater Beach Oriole Orchestra.

11:30 p. m. to 12:30 a. m.—Paul Locker, tenor; Langdon Brothers, steel guitar duets; dance selections, Edgewater Beach Oriole Orchestra.

WFAA—DALLAS, TEX.  
(476 METERS)

MONDAY, AUG. 25.

12:30 to 1 p. m.—Address, Dr. Ellis W. Shuler, Southern Methodist University, department of geology, on "Texas Rock Stories."

8:30 to 9:30 p. m.—J. M. Cox and his sacred song quartet, male and mixed.

TUESDAY, AUG. 26.

8:30 to 9:30 p. m.—Musical recital by the Alka Choral Club.

11 to 12 p. m.—Musical recital by Cecil Dunavant Everett, contralto.

THURSDAY, AUG. 28.

8:30 to 9:30 p. m.—Musical recital by the Wednesday Morning Choral Club.

11 to 12 p. m.—Midnight Melody Men in popular music recital.

FRIDAY, AUG. 29.

8:30 to 9:30 p. m.—Charles Scogin, baritone, and Miss Theima Roberts, pianist, in recital.

SATURDAY, AUG. 30.

8:30 to 9:30 p. m.—Netto Male Quartet in vocal recital.

11 to 12 p. m.—Adolph Hotel Orchestra, Lawrence Morrell directing.

WGR—BUFFALO, N. Y.  
(319 METERS)

SUNDAY, AUG. 24.

8 p. m.—Vesper services, Dr. Don D.

Tulla, executive secretary, Council of Churches, Buffalo, N. Y.

MONDAY, AUG. 25.

6:30 p. m.—Dinner music, Vincent Lopez, Hotel Statler dance orchestra.

8:50 to 9 p. m.—Address, "Radio Life in England," by A. C. Hugh, member of Radio Society of Great Britain.

9 to 11 p. m.—Musical program through the courtesy of E. C. Smith of the Wheat Ice Cream Co., under personal direction of P. Arler, news and assisting artists.

11 p. m.—Supper music, Vincent Lopez, Hotel Statler dance orchestra.

TUESDAY, AUG. 26.

6:30 p. m.—Dinner music, Vincent Lopez, Hotel Statler dance orchestra.

8:50 p. m.—Dinner music, Vincent Lopez, Hotel Statler dance orchestra.

7:30 p. m.—Digest of the day's news, market report. Live stock market report.

9 to 10:30 p. m.—Musical program through the courtesy of the Musical Club, under the direction of Miss Frances M. B. Cady.

10:30 to 11 p. m.—Musical program presented by Miss Gertrude E. Hunsdon, assisted by Miss Elsie Barrows and Miss Marguerite Kraemer.

11 p. m.—Supper music, Vincent Lopez, Hotel Statler dance orchestra.

THURSDAY, AUG. 28.

6:30 p. m.—Dinner music, Vincent Lopez, Hotel Statler dance orchestra.

7:30 p. m.—Digest of the day's news, market report. Buffalo live stock market report.

9 to 10 p. m.—Musical program presented through the courtesy of Edna E. Erismann.

10 to 11 p. m.—Musical program through the courtesy of Edna E. Erismann, Tribe of Red Men, 181, under the direction of Edward G. Meister, P. O. Box 10, G.

11 p. m.—Supper music, Vincent Lopez, Hotel Statler dance orchestra.

11:30 p. m.—Supper music, Vincent Lopez, Hotel Statler dance orchestra.

12:30 p. m.—Supper music, Vincent Lopez, Hotel Statler dance orchestra.

1:30 p. m.—Supper music, Vincent Lopez, Hotel Statler dance orchestra.

2:30 p. m.—Supper music, Vincent Lopez, Hotel Statler dance orchestra.

3:30 p. m.—Supper music, Vincent Lopez, Hotel Statler dance orchestra.

4:30 p. m.—Supper music, Vincent Lopez, Hotel Statler dance orchestra.

5:30 p. m.—Supper music, Vincent Lopez, Hotel Statler dance orchestra.

6:30 p. m.—Supper music, Vincent Lopez, Hotel Statler dance orchestra.

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5:30 p. m.—Supper music, Vincent Lopez, Hotel Statler dance orchestra.

6:30 p. m.—Supper music, Vincent Lopez, Hotel Statler dance orchestra.

7:30 p. m.—Supper music, Vincent Lopez, Hotel Statler dance orchestra.



# Continued RADIO PROGRAMS FOR THE WEEK—Continued

Tullis, executive secretary, Buffalo Council of Churches, Buffalo, N. Y.

**MONDAY, AUG. 25.**

6:30 p. m.—Dinner music, Vincent Lopez Hotel Statler dance orchestra.

8:50 to 9 p. m.—Address, "Radio Life in England," by A. C. Hugh, member of Radio Society of Great Britain.

9 to 11 p. m.—Musical program given through the courtesy of E. C. Sutton of the Wheat Ice Cream Co., under the personal direction of P. Arlow Mathews and assisting artists.

11 p. m.—Supper music, Vincent Lopez Hotel Statler dance orchestra.

**TUESDAY, AUG. 26.**

6:30 p. m.—Dinner music, Vincent Lopez Hotel Statler dance orchestra.

**WEDNESDAY, AUG. 27.**

6:30 p. m.—Dinner music, Vincent Lopez Hotel Statler dance orchestra.

7:30 p. m.—Digest of the day's news. Baseball scores. Live stock market report.

9 to 10:30 p. m.—Musical program given through the courtesy of the Argo Musical Club, under the direction of Miss Frances M. B. Cady.

10:30 to 11 p. m.—Musical program presented by Miss Gertrude E. Hutchinson, assisted by Miss Elsie Baureis and Miss Marguerite Kraemer.

11 p. m.—Supper music, Vincent Lopez Hotel Statler dance orchestra.

**THURSDAY, AUG. 28.**

6:30 p. m.—Dinner music, Vincent Lopez Hotel Statler dance orchestra.

**FRIDAY, AUG. 29.**

6:30 p. m.—Dinner music, Vincent Lopez Hotel Statler dance orchestra.

7:30 p. m.—Digest of the day's news. Baseball scores. Live stock market report.

9 to 10 p. m.—Musical program presented through the courtesy of Hickman & Coward, under the direction of A. J. Erisman.

10 to 11 p. m.—Musical program given through the courtesy of Passagunk Tribe of Red Men, 181, under the direction of Edward G. Meister, P. O. G. of C.

11 p. m.—Supper music, Vincent Lopez Hotel Statler dance orchestra.

**WGY—SCHENECTADY, N. Y. (380 METERS)**

**SUNDAY, AUG. 24.**

7:15 p. m.—Program by "Goldman's Band, Edwin Frank Goldman, conductor, broadcast from The Mail, Central Park, New York.

**MONDAY, AUG. 25.**

7:45 p. m.—"Movie Notions," by Quinn Martin, movie critic of the New York World.

7:55 p. m.—Program by Charles W. Stewart, baritone; Lillian E. Fisher, reader, and Marcella J. Stewart, pianist.

**TUESDAY, AUG. 26.**

6 p. m.—Dinner music by Joseph Chickens and the Clover Club Boys from the Ten Eyck Hotel, Albany, N. Y.

7:45 p. m.—Program by Jack Taylor's orchestra. Address, "Classroom Instruction by Radio in Oakland Public Schools," prepared by Virgil E. Dickson, Deputy Superintendent of Schools, Oakland, Cal.

10:15 p. m.—Organ recital by Stephen E. Bolclair, from Proctor's Harmonium, Bleecker Hall, Albany, N. Y.

**THURSDAY, AUG. 28.**

5:30 p. m.—Organ recital by Stephen E. Bolclair, from Proctor's Harmonium, Bleecker Hall, Albany, N. Y.

7:45 p. m.—"A Few Moments With New Books," William Jacob, librarian, General Electric Co.

8 p. m.—Travelogue, "A Polar Cruise," by Dr. Sigel Roush; instrumental music by the Alaskan Ensemble.

**FRIDAY, AUG. 29.**

7:45 p. m.—Radio drama, "Not So Fast," by Conrad Westervelt, presented by WGY Student Players; music by Helen Hadding.

10:30 p. m.—Program by Dorothy Conning, piano; Florence Mason, reader; Howard Myers, violin; Frank Fries, piano.

**SATURDAY, AUG. 30.**

9:30 p. m.—Dance music by Joseph Chickens and his Clover Club Orchestra, Hotel Ten Eyck, Albany, N. Y.

**WHAS—LOUISVILLE, KY. (400 METERS)**

**SUNDAY, AUG. 24.**

9:57 a. m.—Organ music.

10 a. m.—Church service under the auspices of the Seventh Day Adventist Church, the Rev. Dr. Robert J. Burdett, pastor.

4 to 5 p. m.—Concert under the direction of Mrs. Harry R. Moore.

**MONDAY, AUG. 25.**

4 to 5 p. m.—Selections by the Alamo Theater Orchestra, Harry S. Currie, conductor.

**TUESDAY, AUG. 26.**

4 to 5 p. m.—Selections by the Alamo Theater Orchestra, Harry S. Currie, conductor.

7:30 to 8 p. m.—Concert by Keith Kannard and his Kentucky Ramblers, Keith Kannard, director, saxophone.

9:30 p. m.—Concert by Vesella's concert band; Oreste Vesella, conductor; soloist, Olive Marshall, soprano; broadcast direct from the WIP control station on the Steel Pier, Atlantic City, N. J.

**WEDNESDAY, AUG. 27.**

10 p. m.—Dance music by Bob Leman's dance orchestra, broadcast direct from the WIP control station on the Steel Pier, Atlantic City, N. J.

**THURSDAY, AUG. 28.**

8 p. m.—Concert by Comfort's Philharmonic Orchestra, Roy B. Comfort, conductor; soloist, Miss Katherine McLean, contralto; broadcast direct from the WIP control station on the Steel Pier, Atlantic City, N. J.

10:30 p. m.—"What the Wild Waves Are Saying," picked up by a microphone placed amidst the breaking waves under the Steel Pier, Atlantic City, N. J.

11:05 p. m.—Organ recital by Karl Bonawitz, broadcast direct from the Germantown Theater.

**WJAX—CLEVELAND, O. (390 METERS)**

**TUESDAY, AUG. 26.**

7:30 p. m.—Program: Bedtime story and radio cartoon, followed by dance music by Joe Smith's orchestra and special vocal and instrumental numbers.

**THURSDAY, AUG. 28.**

8 p. m.—Program of musical numbers by the Cleveland Hotel orchestra, under the direction of Ivan Francis, followed by vocal solos by Albert Downing, English tenor, and violin selections by Morton Morgenstern.

**WJY—NEW YORK, N. Y. (405 METERS)**

**SUNDAY, AUG. 24.**

5 p. m.—Imerio Ferrari, baritone.

**TUESDAY, AUG. 26.**

8:15 p. m.—Myrtle Wagner Whitt, coloratura soprano; Keith McLeod, accompanist.

8:30 p. m.—The Radio Franks—Wright and Bessinger.

8:45 p. m.—Myrtle Wagner Whitt.

**THURSDAY, AUG. 28.**

9 p. m.—Al Reiser's Club Ferreri orchestra.

**FRIDAY, AUG. 29.**

8:15 p. m.—Looseleaf Current Topics, William H. Allen.

8:30 p. m.—"Janice Meredith," music direct from Cosmopolitan Theater.

**WJZ—NEW YORK, N. Y. (455 METERS)**

**SUNDAY, AUG. 24.**

8:15 p. m.—Goldman band concert, direct from Mail, Central Park; Edwin Frank Goldman, director; cleaning program, Waino Kauppi, cellist; Fonarova, soprano.

**MONDAY, AUG. 25.**

8:15 p. m.—Field and Stream sport talk.

8:30 p. m.—Godfrey Ludlow, violinist; Keith McLeod, accompanist.

9 p. m.—"Round the World Flight," Maj. L. D. Gardner.

9:15 p. m.—Leon Kristel, baritone.

10:15 p. m.—The Radio Franks—Wright and Bessinger.

**TUESDAY, AUG. 26.**

8:15 p. m.—Estey organ recital direct from Estey studios.

9 p. m.—"How to Get a Patent and Finance It," Major B. Foster, University of the Air.

9:15 p. m.—United States Navy night.

11 p. m.—Roger Wolfe's Biltmore Cascades orchestra.

**WEDNESDAY, AUG. 27.**

8 p. m.—"The Uganda Railway," George Laval Chesterton.

8:15 p. m.—Joel Coffey, pianist.

8:30 p. m.—Sava Tcherny, violinist.

9 p. m.—Sava Tcherny, violinist.

9:40 p. m.—Charles Peters, pianist.

10 p. m.—Talk by Fred Fletcher, editor of fishing and hunting, Evening World.

10:30 p. m.—Billy Wayne's Greenwich Village Inn orchestra.

**THURSDAY, AUG. 28.**

7:55 p. m.—Collier's Weekly talk.

8 p. m.—Weekly French lesson.

8:30 p. m.—Irene Jacques, soprano.

9:30 p. m.—Wireless Age program; Charles Ramon, mezzo-soprano; Hilary Bryden, tenor.

10:30 p. m.—Waldorf Astoria roof orchestra; Joseph Knecht, director.

**FRIDAY, AUG. 29.**

8 p. m.—Arthur Maabe, violinist; Cesar Borre, accompanist.

8:15 p. m.—Time pop question game.

8:30 p. m.—Arthur Maabe, violinist; Cesar Borre, accompanist.

8:45 p. m.—Piedmont Trio.

9:30 p. m.—Piedmont Trio.

10:30 p. m.—Harold Stern's Belleclair Towers orchestra.

**SATURDAY, AUG. 30.**

10:30 p. m.—Hotel Astor roof orchestra.

**WLS—CHICAGO, ILL. (345 METERS)**

**SUNDAY, AUG. 24.**

Program arranged by Chicago Postoffice.

**TUESDAY, AUG. 26.**

6:30 p. m.—Evening program: 6:30, Ralph Emerson, at Barton organ; 7, Homer Fabor, organ talk; 7:15, Samuel G. Bowe, tenor; 7:45, Lullaby Time, Glenn Rowell and Ford Rush; 8, Prof. Nataniel Finston, musical director Chicago Theater, (Program arranged by Robt. W. Stevens.)

9 to 10 p. m.—Farm program: Music, Charles Dalton, baritone; weekly review of fruit and vegetable markets; talk, "The Missouri Poultry House," H. L. Hempster, University of Missouri; talk, "What to Expect From Co-Operative Fruit Marketing," B. C. Durst, editor American Fruit Grower, Chicago; 10, music, Jaro Trio, Columbia Record artists, Glenn Rowell and Ford Rush; 10:50, Hotel Sherman College Inn Orchestra; 11, music, Frank de Angella, Italian baritone; 11:30, music, Anderson & Anderson, accordion duo; 12, music, Milton Monroe, yodler and tenor.

**WEDNESDAY, AUG. 27.**

6:30 to 11 p. m.—Evening program: 6:30, Ralph Emerson, at Barton organ; 7, Hill, Hirsch and Corney, "The Three Musketeers"; 7:15, Samuel M. Adia, phenomenal baritone-soprano; 7:45, Lullaby Time, Ford Rush, Glenn Rowell; 8 to 9 p. m.—Juvenile hour, "Boys and Girls Hour"; 9 to 10 p. m.—Farm program: Weekly wool market summary; talk, "Breeding for Eggs on the General Farm," H. L. Kempster, University of Missouri; talk, "Answering the Farmers' Questions," Earl Price; music, Blanche Robinson, composer and pianist.

10 to 11 p. m.—10, Madora Trio; 10:30, Ford Rush and Glenn Rowell; 10:50, Hotel Sherman College Inn Orchestra.

**THURSDAY, AUG. 28.**

6:30 p. m. to 1 a. m.—Evening program: 6:30, Ralph W. Emerson, at the Barton organ; 7, George du Bois, basso, and Ruth McDowell, soprano, of the Carl Craven Studio; 7:45, Lullaby Time, Ford and Glenn; 8 to 10:15, silent; 10:15, Hotel Sherman College Inn Orchestra; 10:30, Ford Rush and Glenn Rowell; 10:45, Western Electric Glee Club and male voices; solos, duet, trios and quartets; 12, Midnite Mardi Gras.

**FRIDAY, AUG. 29.**

6:30 to 11 p. m.—Evening program: 6:30, Ralph Emerson, at Barton organ; 7, Col. Edwin House, basso cantante of Los Angeles, Cal.; 7:15, George D. Home, baritone; 7:45, Lullaby Time, Ford Rush, Glenn Rowell; 8, Robt. W. Stevens, with Prof. Palmamator of the Bavaria Opera company.

9 to 10 p. m.—Farm program: Weekly market review of dairy products; talk, "Parasites and Diseases of the Poultry Flock," H. L. Kempster, University of Missouri; "John Turnipseed" series, E. C. Thiem, Prairie Farmer, Chicago; talk, "Visiting the Coops," Walton Peet, secretary National Co-Operative Marketing Council; 10, musical program arranged by Louise Crumm of Steinway Hall; 10:30, Glenn and Ford Time; 10:50, Hotel Sherman College Inn Orchestra.

**SATURDAY, AUG. 30.**

7:45 p. m. to 1 a. m.—Evening program: 7:45, Lullaby Time, Ford Rush and Glenn Rowell; weekly summary of grain and hay markets; 8, National Barn Dance, with George Waldron and Ed Slicker, (fiddle and piano), Chicago; John and A. Hartmann, J. Lawrence and N. C. Barngraver (string team of Chicago); John Fgul, concertina artist of Westmont, Ill.; Walter Peterson, "Kentucky Wonder Bean"; Tom Gwinn, caller; Ralph Whitlock, barn dance pianist.

**WLW—CINCINNATI, O. (423 METERS)**

**SUNDAY, AUG. 24.**

9:30 a. m.—School conducted by the editorial staff of Sunday School Publications of the Methodist Book Concern.

11 a. m.—Services of the Church of the Covenant, Dr. Frank Stevenson, minister.

9 p. m.—Concert by the Western and Southern Orchestra, directed by Erwin Bellstedt (under the auspices of the Welfare Association of the Western and Southern Life Insurance Co.)

**MONDAY, AUG. 25.**

8 p. m.—The Zoo Frolic, a gala review of dance, song and comedy, all-star casts, featuring Alberti pantomimes; Gunnar Bohman, Swedish Troubadour; Cartier and Zanou, dance interpretations; Daisy Connel Chinn, coloratura soprano; Daddy Grobeckers, Swiss yodelers; Steele and Winslow, "In Poetic Motion"; Lorna Doone Jackson, contralto; Leo de Hierapola, baritone of Hineshaw Opera company; Jose Mojica, tenor of the Chicago Opera company; Albertina Rasch and the Alberta Rasch Dancers. Intermission at the Zoo. Croesley Theatrical Review, followed by dance concert by Alvin Roehr's Music Makers. Continuation of Zoo Frolic.

**TUESDAY, AUG. 26.**

10 p. m.—Bernie Cummins and his Genet recording orchestra (by direct line from Goodwin's Palm Garden).

10:30 p. m.—Concert program by the Mastropola Instrumental Trio; Mas-

trapolo brothers, violin and 'cello, with Miss Arico at the piano.

11 p. m.—Bernie Cummins' Genet recording orchestra.

11:30 p. m.—Violin solos with Celeste.

11:55 p. m.—Special program by the Chubb-Steinberg Orchestra.

**WEDNESDAY, AUG. 27.**

8 p. m.—A program of popular music, presented symphonically by the Virginia Entertainers.

9 p. m.—Whistling solos and imitations by Mr. Donald Bain.

9:15 p. m.—Program of original compositions by Mr. H. H. Walker.

**THURSDAY, AUG. 28.**

10 p. m.—Three-minute message from the United States Civil Service Department. Concert program by the Milnor Instrumental Trio. (The courtesy of the Milnor Electric Co., Cincinnati.)

10:35 p. m.—Popular program and entertainment by the Doherty Melody Boys. Milnor instrumental trio.

**WMAQ—CHICAGO, ILL. (447.5 METERS.)**

**MONDAY, AUG. 25.**

6 p. m.—Chicago Theater organ recital.

6:30 p. m.—Hotel La Salle orchestra.

**TUESDAY, AUG. 26.**

6 p. m.—Chicago Theater organ recital.

6:30 p. m.—Hotel La Salle orchestra.

8 p. m.—Harry Hansen.

8:20 p. m.—Miss Clara E. Laughlin, travel talk.

8:40 p. m.—One of the series of talks by the United States Civil Service Commission.

9:15 p. m.—Mrs. Marie F. Baetzner, soprano; Miss Hortense Hall, pianist.

**WEDNESDAY, AUG. 27.**

6 p. m.—Chicago Theater organ recital.

6:30 p. m.—Stories for children by Miss Katherine Waller.

9 p. m.—Talk from one of the Chicago charities.

9:15 p. m.—Oscar Williamson, tenor.

**THURSDAY, AUG. 28.**

6 p. m.—Chicago Theater organ recital.

6:30 p. m.—Hotel La Salle orchestra.

8 p. m.—Weekly talk by James Burdett.

8:15 p. m.—Weekly talk for Boy Scouts.

8:30 p. m.—Talk by Brigadier-General Abel Davis on Soldier Relief Radio Fund.

8:45 p. m.—Weekly investment talk.

9 p. m.—Weekly talk by Rockwell R. Stephens.

9:15 p. m.—To be announced.

**FRIDAY, AUG. 29.**

6 p. m.—Chicago Theater organ recital.

6:30 p. m.—Hotel La Salle orchestra.

8 p. m.—Nature Study Club talk by Earnett Harris.

8:15 p. m.—Weekly Wide-Awake Club program, directed by Mrs. Frances M. Ford.

8:40 p. m.—Christian Endeavor topics.

9:15 p. m.—To be announced.

**SATURDAY, AUG. 30.**

6:30 p. m.—Hotel La Salle orchestra.

8 p. m.—To be announced.

9 p. m.—Weekly Balaban & Katz Chicago Theater revue.

**WMC—MEMPHIS, TENN. (500 METERS.)**

**MONDAY, AUG. 25.**

6:30 p. m.—Program by the Hotel Gayoso orchestra.

**TUESDAY, AUG. 26.**

8:30 p. m.—Harry O. Nichols in organ recital broadcast from the Scottish Rite Cathedral.

11 p. m.—Midnight Frolic to be announced later.

**WEDNESDAY, AUG. 27.**

Silent night.

**THURSDAY, AUG. 28.**

8:30 p. m.—Program arranged by Mrs. Louise Bowen.

**FRIDAY, AUG. 29.**

8:30 p. m.—Prof. Chin Chin and his Britling's Cafeteria orchestra.

11 p. m.—Midnight Frolic by Bob Miller's Steamer Idlewild orchestra.

**SATURDAY, AUG. 30.**

8:30 p. m.—Program to be announced later.

**WOAW—OMAHA, NEB. (526 METERS)**

**SUNDAY, AUG. 24.**

a. m.—Radio chapel service, conducted by the Rev. R. R. Brown, pastor of Omaha Gospel Tabernacle of the Christian and Missionary Alliance.



## RADIO PROGRAMS FOR THE WEEK—Continued

6:30 p. m.—Dinner program by Yost's orchestra of De Luxe Dancing Academy.

9 p. m.—Program arranged by Frank Buckingham, instructor of banjo, mandolin and guitar.

## FRIDAY, AUG. 23.

6 p. m.—Popular half hour.

6:30 p. m.—Dinner program by G. R.'s radio orchestra.

9 p. m.—De Luxe program.

SATURDAY, AUG. 24.

6 p. m.—Popular half hour.

6:30 p. m.—Dinner program by Harmon Jazz Orchestra, Ralph Feral, director.

9 p. m.—Program by First Christian Church orchestra, Joseph F. Woolery Jr., director.

## WOC—DAVENPORT, IOWA (484 METERS)

## SUNDAY, AUG. 24.

9 a. m.—Sacred chimes concert.

1:30 p. m.—Orchestra concert. Sacred and classical numbers by the Palmer School radio orchestra; Erwin Swindell, conductor.

7:30 p. m.—Spoken news.

8 p. m.—Church service. Rev. Loyal M. Thompson, pastor Methodist Episcopal Church, Lacon, Ill.

9:30 p. m.—Musical program, the Palmer School radio orchestra; Erwin Swindell, conductor.

## MONDAY, AUG. 25.

8 p. m.—Musical program, band concert by Freeport band of Freeport, Ill.

10 p. m.—Musical program by a group of artists from Onida, Ill.

## WEDNESDAY, AUG. 27.

8 p. m.—Organ recital from the E. J. Palmer residence; Erwin Swindell, organist; Edwin R. Ball, tenor.

## THURSDAY, AUG. 28.

9 p. m.—Orchestra program, the Palmer School radio orchestra; Erwin Swindell, conductor, featuring Ralph W. Fuller, baritone soloist.

## FRIDAY, AUG. 29.

8 p. m.—Musical program; Fred Sutterlin, ukulele; Jesse Clinton, guitar; Peter Kale, baritone; Mrs. Leon H. Nelson, whistler.

9 p. m.—Weekly tourists' road bulletin, as compiled by Touring Bureau, Davenport Chamber of Commerce.

## SATURDAY, AUG. 30.

9 p. m.—Orchestra program, the Palmer School radio orchestra; Erwin Swindell, conductor, featuring Ralph W. Fuller, baritone soloist.

## WOS—JEFFERSON CITY, MO. (440.9 METERS)

## SUNDAY, AUG. 24.

7:30 p. m.—Union open-air religious services radiocast from the Capitol lawn. Music by the Missouri State Prison Concert Band.

## MONDAY, AUG. 25.

8 p. m.—Address, "Have You Had Your Lime Today?" and "Developing a \$100,000,000 Industry," by A. T. Nelson, State Marketing Commissioner.

8:30 p. m.—Dance program by the Varsity Players Orchestra of Missouri University under the direction of Hurley Kayler.

## WEDNESDAY, AUG. 27.

8 p. m.—Address, "Wheat Production in

## LOCAL BROADCASTING NEXT WEEK

## K S D—550 KILOCYCLES—546 METERS

SUNDAY, AUG. 24, 9:00 P. M.—Music program broadcast direct from Grand Central theater.

MONDAY, AUG. 25, 7:00 P. M.—Concert by Abergh's Concert Ensemble, Arne Arnesen, violinist; broadcast direct from Hotel Statler roof garden.

TUESDAY, AUG. 26, Silent.

WEDNESDAY, AUG. 27, 8:00 P. M.—Silverman's Orchestra concert broadcast direct from Lyric Skydome.

THURSDAY, AUG. 28, Silent.

FRIDAY, AUG. 29, 1:00 P. M.—Concert by Abergh's concert ensemble, Arne Arnesen, violinist; broadcast direct from Hotel Statler roof garden.

8:30 P. M.—Address by Major F. H. Baird.

Recital by Leopold von Kuenimann, tenor; Claudine Venable, pianist; Margaret Heston, soprano.

SATURDAY, AUG. 30, 8:00 P. M.—Missouri Theater orchestra and specialties broadcast direct from Missouri Theater.

## W C K—825 KILOCYCLES—360 METERS

MONDAY, AUG. 25, Noon—Popular songs by Meyer Levy, ukulele accompaniment by W. J. Amundson. Last minute news items.

2:15 P. M.—Baseball scores furnished every 15 minutes.

3:00 P. M.—Popular songs by Elmer McDonald.

1:00 P. M.—Musical program by the Fontenelle String Orchestra. A. C. Moulton, violin, tenor banjo, Leo A. Pedigo, banjo, ukulele; C. G. Pedigo, tenor and piano.

WEDNESDAY, AUG. 27, Noon—Musical program by Dixon-Lane Music Co. Last minute news items.

2:00 P. M.—Program by the Illinois Watch Band of Springfield, Ill., in St. Louis for the Convention of the National Jewelers' Association.

2:15 P. M.—Baseball scores furnished every 15 minutes.

WEDNESDAY, AUG. 27, Noon—Last minute news service. Popular songs by Billy Knight.

2:15 P. M.—Baseball scores furnished every 15 minutes.

3:00 P. M.—Piano recital by Marion Rice.

1:00 P. M.—Musical program by the "Serenaders."

THURSDAY, AUG. 28, Noon—Songs by Billy Moss. Last Minute News Items.

2:15 P. M.—Baseball scores furnished every 15 minutes.

3:00 P. M.—Piano recital by Hilfred Adkins.

8:00 P. M.—Piano recital by Hilfred Adkins.

FRIDAY, AUG. 29, Noon—Last minute news items. Popular songs by Elmer McDonald.

2:15 P. M.—Baseball scores furnished every 15 minutes.

3:00 P. M.—Piano recital by Irene Huth.

7:00 P. M.—Recital by Miss Carrie Smiler.

THURSDAY, AUG. 28, Noon—Songs by Robert McGilway.

2:15 P. M.—Baseball scores furnished every 15 minutes.

3:00 P. M.—Piano recital by Hilfred Adkins.

8:00 P. M.—Piano recital by Hilfred Adkins.

SUNDAY, AUG. 24, 8:00 P. M.—The Morans, Gladys and Jane, in a recital of popular songs.

11:30 P. M.—Willard Robinson and his Chase Hotel Orchestra, direct from the roof garden of the Chase Hotel. Studio program to be announced.

WEDNESDAY, AUG. 27, 8:00 P. M.—Amateur night. Miss Jessie Willis, whistling specialty; Miss Honora O'Gorman, soprano. Sammy Niebeck, baritone. Dorothy Johnson, 5-year-old child wonder. Kelcey Twins, little girl harmony singers and others to be announced.

THURSDAY, AUG. 28, 8:00 P. M.—Ed. Loeckstein, Mrs. May Wickman at the piano.

11:30 P. M.—Willard Robinson and his Chase Hotel Dance Orchestra, direct from the roof garden of the Chase Hotel.

SATURDAY, AUG. 30, 11:00 P. M.—Willard Robinson and his Chase Hotel Dance Orchestra, direct from the roof garden of the Chase Hotel. Studio program to be announced.

## W E B—1100 KILOCYCLES—273 METERS

MONDAY, AUG. 25, 8:00 P. M.—The Morans, Gladys and Jane, in a recital of popular songs.

11:30 P. M.—Willard Robinson and his Chase Hotel Orchestra, direct from the roof garden of the Chase Hotel. Studio program to be announced.

WEDNESDAY, AUG. 27, 8:00 P. M.—Amateur night. Miss Jessie Willis, whistling specialty; Miss Honora O'Gorman, soprano. Sammy Niebeck, baritone. Dorothy Johnson, 5-year-old child wonder. Kelcey Twins, little girl harmony singers and others to be announced.

THURSDAY, AUG. 28, 8:00 P. M.—Ed. Loeckstein, Mrs. May Wickman at the piano.

11:30 P. M.—Willard Robinson and his Chase Hotel Dance Orchestra, direct from the roof garden of the Chase Hotel.

SATURDAY, AUG. 30, 11:00 P. M.—Willard Robinson and his Chase Hotel Dance Orchestra, direct from the roof garden of the Chase Hotel. Studio program to be announced.

## W M A Y—1070 KILOCYCLES—280 METERS

SUNDAY, AUG. 24, 11 A. M.—Regular services of the Kingshighway Presbyterian Church. Sermon, "The Great Companion," by Rev. Owen W. Pratt, associate minister.

7:30 P. M.—Forty-five minutes for everybody. Song service lead by Mr. W. J. Edwards. Address, "Old and New Responsibilities," by Mrs. Rosa Jekyl, Superintendent of the church school of First Presbyterian Church of St. Louis.

## K F Q A—1150 KILOCYCLES—261 METERS

SUNDAY, 11 A. M.—Broadcasting the services of the Fourth Church of Christ, Scientist.

## W E W—280 METERS—1070 KILOCYCLES

TUESDAY, AUG. 26, 8 P. M.—Second series of talks on modern dentistry as an aid to long life—Dr. J. P. Harper.

MISSOURI, by W. C. Etheridge, professor of Field Crops, Missouri College of Agriculture.

8:20 p. m.—Barn dance or quadrille music played by the Old Time String Trio.

FRIDAY, AUG. 29.

8 p. m.—Address, "How the New Missouri Farm Census Law is Worth a Million Dollars to the State," by Jewell Mayes of the Missouri State Board of Agriculture.

8:20 p. m.—Musical program, the details of which will be announced by radio-telephone several days in advance.

## WSAI—CINCINNATI, O. (309 METERS)

## SUNDAY, AUG. 24.

3 p. m.—Sermonette.

3:30 p. m.—Sacred chime concert.

## MONDAY, AUG. 25.

10 p. m.—Popular program by the Royal Garden orchestra.

## TUESDAY, AUG. 26.

7 p. m.—Hotel Gibson orchestra; Robert M. Visconti, director.

## An Eight-Tube Super-Heterodyne Receiver

(Continued from Page 5.)

the position of 10 o'clock. If all connections are properly made, a hissing sound will be heard. The potentiometer is moved backward toward the positive side until the hissing stops. For reception of stations, from 150 meters to 150 meters, the wave change switch is left on point L. For short wave, from 150 to 400 meters, the wave change switch is left on point S. By experimenting, it will be found that stations up to 500 meters can be tuned in while the switch is on point S, but this is not a true harmonic. The wave length condenser merely tunes the loop.

Once stations have been located on a given location, loop and set of tubes, they can always be found on the same dial reading. Before pulling out the filament switch, be sure the "A" battery is connected in the right polarity, as otherwise damage will result to the meters. For reception with loud speaker it is advisable to use Jack No. 2, although loud speaker can be operated on Jack No. 1; better tone can be achieved by using Jack No. 2, and retarding the potentiometer to the positive side, once the station is tuned in.

For reception with head plug, plug is placed in detector. The best way to tune in a station is in the wave length condenser. Rotate the heterodyne dial until the desired station is found. There are several positions where each station can be received, but there is only one position. When this position is found, the wave length dial may be rotated for maximum volume, and the meter adjusted until the desired station is secured.

Considerable time is required in the knack of getting the station this set, but if the instructions are followed carefully there should be no difficulty in getting satisfactory results.

7:30 p. m.—China concert. Stories, Mrs. Ethel Behrens.

8 p. m.—Hotel Gibson orchestra.

9 p. m.—Musical program; vocal instrumental numbers.

## THURSDAY, AUG. 28.

10 p. m.—Musical program, vocal and instrumental numbers.

## SATURDAY, AUG. 30.

8 p. m.—China concert.

8:30 p. m.—Soprano solo, Miss Jean Upperman. Violin solo, Badgley.

9 p. m.—Weekly news review, Ford H. Cox. Musical program.

12 p. m.—Freda Sanker's Radio.

## WTAM—CLEVELAND (390 METERS)

## MONDAY, AUG. 25.

6 to 7:30 p. m.—Stallier and Paul studios. Hotel Statler dinner. Baseball scores.

8 to 10 p. m.—Willard studio. Of popular and classical music. Smith's Metropolitan. Akron, O.

## TUESDAY, AUG. 26.

6 to 7:30 p. m.—Stallier and Paul studios. Hotel Statler dinner. Baseball scores.

8 to 10 p. m.—Stallier and Paul studios. Hotel Statler dinner. Baseball scores.

## WEDNESDAY, AUG. 27.

6 to 7:30 p. m.—Stallier and Paul studios. Hotel Statler dinner. Baseball scores.

8 to 11 p. m.—Plain Dealer broadcast program.

## THURSDAY, AUG. 28.

6 to 7:30 p. m.—Stallier and Paul studios. Hotel Statler dinner. Baseball scores.

8 to 10 p. m.—Stallier and Paul studios. Hotel Statler dinner. Baseball scores.

## FRIDAY, AUG. 29.

6 to 7:30 p. m.—Stallier and Paul studios. Hotel Statler dinner. Baseball scores.

8 to 10 p. m.—Stallier and Paul studios. Hotel Statler dinner. Baseball scores.

## SATURDAY, AUG. 30.

6 to 7:30 p. m.—Stallier and Paul studios. Hotel Statler dinner. Baseball scores.

8 to 10 p. m.—Stallier and Paul studios. Hotel Statler dinner. Baseball scores.

## WWJ—DETROIT, MI (517 METERS)

## SUNDAY, AUG. 24.

4 p. m.—Concert by Schumann's band, broadcast from Belle Isle.

5 p. m.—The Detroit News and Times.

7:30 p. m.—Services at St. Paul's cathedral, broadcast from the cathedral.

## MONDAY, AUG. 25.

7 p. m.—The Detroit News and Times.

7:30 p. m.—Concert by Schumann's band, broadcast from Belle Isle Park.

## TUESDAY, AUG. 26.

7 p. m.—The Detroit News and Times.

7:30 p. m.—Concert by Schumann's band, broadcast from Belle Isle Park.

## WEDNESDAY, AUG. 27.

7 p. m.—The Detroit News and Times.

7:30 p. m.—Concert by Schumann's band, broadcast from Belle Isle Park.

## THURSDAY, AUG. 28.

7 p. m.—The Detroit News and Times.

7:30 p. m.—Concert by Schumann's band, broadcast from Belle Isle Park.

## FRIDAY, AUG. 29.

7 p. m.—The Detroit News and Times.

7:30 p. m.—Concert by Schumann's band, broadcast from Belle Isle Park.

## SATURDAY, AUG. 30.

7:30 p. m.—Concert by Schumann's band, broadcast from Belle Isle Park.

## What to Look for in Selecting a Loud Speaker

(Continued From Page 1.)

In use at the present time. Those referred to in preceding paragraphs were simply two consecutive stages of audio frequency which method has been familiar to broadcast listeners and dyed-in-the-wool amateurs for a number of years and which needs no introduction here. Sometimes three stages are employed, but this is only possible when three highly efficient transformers are used, preferably of the same make.

The past year, however, has brought to light another type of amplifier known as the "push-pull" variety. It consists of two tubes inter-connected by two audio-frequency transformers having a split secondary and a split primary. Omitting a technical explanation, the effect of this method of coupling is to produce intense amplification with a minimum of distortion. For satisfactory operation it requires not less than one stage of audio frequency and preferably two. Even three may be employed, but the third provides more volume than is needed under ordinary conditions.

This type of amplifier, of course, cannot be used with the headphone type of loud speaker, but requires one which is designed and built for heavy loads and preferably one having an adjustable diaphragm.

Now we come to the method of selecting the "right" loud speaker or the one best suited to the needs of any one of a number of different individuals.

"The proof of the loud speaker," according to the dealer, "lies in the hearing." But the prospective customer should not be satisfied with merely listening to ascertain whether or not the speaker will function; he wants to compare it with other speakers of which he has some knowledge.

The dealer may not have a receiving

set in operation, or, if he has, there may be no local broadcasting "in the air" at the time. Even so, the program may not be of a kind suitable for making loud speaker comparisons. We may take a prominent engineer's word for it that impressions of loud speakers gathered at random by tests here and there, under widely varying conditions, are practically worthless for purposes of comparison. Even a test with a receiving set, with an ordinary program in progress during which one or more loud speakers are connected successively to the radio equipment, while providing some degree of comparison, by no means constitutes the perfect comparative test for sound reproducing apparatus. The human factor involved makes such tests extremely fallible because the retentive power of the mind for sound impressions is extremely weak. A test made with one loud speaker under a given set of conditions and another subsequently made, under supposedly the same conditions, constitutes a very unreliable test.

Fortunately, however, a plan has been devised, by an engineer for one of the leading loud speaker manufacturers in the country, whereby amplifying horns or even headphones may be tested consecutively under exactly the same unvarying conditions. The apparatus which has made this possible, consists of a portable phonograph, the reproducer of which has been replaced by a special type of microphone actuated by the reproducing needle, which delivers to the loud speaker under test the exact equivalent of the most suitable music or selection for making a comparative test.

This method, then, is undoubtedly the most satisfactory means of finding out exactly what the device under consideration will do, under the most favorable of conditions.

Pioneers in Radio  
First in St. Louis  
**BENWOOD**  
The Wholesale Dealer  
1110 OLIVEST. OLIVE